

OM of: US-09-801-115-2 to: EST: \* out\_format : pfs

Date: Jul 19, 2002 8:24 PM

About: Results were produced by the GenCore software, version 4.5.  
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#### Command line parameters:

-MODEL=frame+g2n.model -DEV=x1h  
-O/cgcn2.1/USPTO\_spool/US09801115/runat\_19072002\_182249\_6105/app-query.fasta.1.156  
-DB=EST -QFMT=fastap -SUFFIX=first -GAPOP=12.000 -GAPEXT=4.000  
-MINMATCH=0.100 -LOOPTOL=0.000 -LOOPEXT=0.000 -OGAPOP=4.500  
-OGAPEXT=0.050 -XGAPOP=10.000 -XGAPEXT=0.500 -FGAPOP=6.000  
-FGAPEXT=7.000 -YCAPOP=10.000 -YCAPEXT=0.500 -DELDP=6.000  
-DELETE=7.000 -START=1 -MATRIX=DIOSUM62 -TRANS=human40.cdi  
-LIST=45 -DOCALLIGN=200 -THR\_SCORE=pcr -THR\_MAX=100 -THR\_MIN=0  
-ALIGN=15 -MODE=LOCAL -OUTFMT=pfs -NORM=ext -HEAPSIZE=500  
-MINLEN=0 -MAXLEN=2000000000 -USER=US09801115 @CGNL.1.2376  
-NCPU=6 -ICPU=3 -LONGLOG -DEV\_TIMEOUT=120 -WARN\_TIMEOUT=30  
-NO\_XLPRX -WAIT -THREADS=1

#### Search information block:

Query: US-09-801-115-2  
Query Length: 99  
Database: EST: \*  
Database sequences: 13736207  
Database length: -1841457050  
Search time (sec): 1581.540000

#### score\_list:

Sequence	Strd	Orig	ZScore	EScore	Len	Documentation
gb_est1:AA911088	-	508.00	1174.94	3.4e-56	386	AA911088 ok67e01.s1 NCI_CGAP_GC
gb_est1:AI989739	-	508.00	1174.81	3.4e-56	391	AI989739 wk21e10.x1 Soares_Died
gb_est1:AM183193	-	508.00	1174.68	3.5e-56	396	AM183193 xj6f11.x1 Soares_NFL
gb_est1:AA516431	-	508.00	1174.61	3.5e-56	399	AA516431 ne5a003.s1 NCI_CGAP_CC
gb_est1:AI989747	-	508.00	1174.53	3.6e-56	402	AI989747 wst1f09.x1 Soares_Died
gb_est1:AI826623	-	508.00	1174.36	3.6e-56	409	AI826623 wk35d10.x1 NCI_CGAP_PT
gb_est1:AI128804	-	508.00	1174.02	3.8e-56	423	AI128804 qa94b08.s1 Soares_feld
gb_est1:AA455042	-	508.00	1173.93	3.8e-56	427	AA455042 aa04a07.s1 Soares_NHM
gb_est1:AA429945	-	508.00	1173.81	3.9e-56	432	AA429945 zw67f10.s1 Soares_test
gb_est1:AI078680	-	508.00	1173.36	4.1e-56	452	AI078680 cz37h05.x1 Soares_NHM
gb_est1:AI743235	-	508.00	1173.34	4.1e-56	453	AI743235 w99a002.x1 Soares_NSF
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gb_est1:BG031757	+	508.00	1171.69	5.1e-56	534	BG031757 602299819f1 NIH_MGC_87
gb_est1:BM472086	+	505.00	1165.59	1.1e-55	387	BM472086 AGEMCORT_6469731 NIH
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gb_est1:BG529072	+	504.00	1158.52	2.8e-55	781	BG529072 602379169f1 NIH_MGC_60
gb_est1:BG429994	+	504.00	1156.44	3.6e-55	962	BG429994 602362062f1 NIH_MGC_90
gb_est1:BF691818	+	491.00	1132.01	8.3e-54	529	BF691818 602247878f1 NIH_MGC_62
gb_est1:BG613984	+	484.00	1117.41	5.4e-53	443	BG613984 602645133f1 NIH_MGC_61
gb_est1:AV759888	+	480.00	1108.30	1.7e-52	432	AV759888 AV759888 MDS Homo sapi
gb_est1:AI141284	+	476.50	1101.01	4.4e-52	393	AI141284 qa52h10.s1 Soares_NHM
gb_est1:AI1265924	+	475.00	1098.92	6.0e-52	353	AI1265924 qx68d08.x1 NCI_CGAP_OV
gb_est1:BF203359	+	475.00	1088.92	2.1e-51	930	BF203359 60188568f1 NIH_MGC_17
gb_est1:W52820	+	472.00	1088.78	2.1e-51	468	W52820 zc55c08.f1 Soares_seneso
gb_est1:AA876539	+	471.50	1086.42	2.9e-51	527	AA876539 oc48h06.s1 NCI_CGAP_PT
gb_est1:AA702011	+	471.50	1085.98	3.0e-51	551	AA702011 zi7f0d02.s1 Soares_feld
gb_est1:AF151058	+	471.50	1083.99	4.1e-51	692	AF151058 Homo sapiens HSPC224
gb_est1:AF151058	+	471.50	1082.55	4.7e-51	776	AF151058 Homo sapiens HSPC224
gb_est1:NB8912	+	471.50	1082.55	4.7e-51	776	AF151058 Homo sapiens HSPC224
gb_est1:BE73159	+	467.50	1073.02	2.4e-51	409	BE73159 zb22g09.s1 Soares_fetal
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gb_est1:BG532587	+	463.00	1068.23	3.8e-50	678	BG532587 602562152f1 NIH_MGC_61
gb_est1:AA887264	+	463.00	1068.16	3.8e-50	678	AA887264 602356564f1 NIH_MGC_97
gb_est1:AA887264	+	452.00	1045.39	5.3e-49	333	AA887264 os11a06.s1 NCI_CGAP_LD
gb_est1:AI633679	+	445.50	1026.11	6.6e-48	500	AI633679 lh71c04.x1 Soares_NHM
gb_est1:BF791773	+	445.50	1023.42	9.3e-48	654	BF791773 60251973f1 NIH_MGC_84
gb_est1:AI633679	+	444.00	1026.89	6.0e-48	326	AI633679 qp62b12.x1 Soares_feta
gb_est1:W93646	+	442.50	1017.17	2.1e-47	606	W93646 zq97d08.s1 Soares_feta
gb_est1:BB875161	+	436.00	1004.81	1.0e-46	456	BB875161 60188641f1 NIH_MGC_69

gb\_est1:AI349474 - 435.00 1006.05 8.6e-47 319 ! AI349474 qp2f07.x1 Soares\_f  
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gb\_est1:AA305052 + 433.00 999.38 2.0e-46 389 ! AA305052 EST176055 Colon car  
gb\_est1:AV754613 - 430.50 990.38 6.4e-46 533 ! AV754613 AV754613 TP Homo sa  
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seq\_name: gb\_est1:AA911088

#### seq\_documentation\_block:

LOCUS AA911088 386 bp mRNA linear EST 09-JUN-1998  
DEFINITION ok67e01.s1 NCI\_CGAP\_GC4 Homo sapiens cDNA clone IMAGE:1519032 3',  
RNA sequence.  
ACCESSION AA911088.1 GI:3050378  
KEYWORDS EST.  
SOURCE human.  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

#### REFERENCE

1 (bases 1 to 386)  
NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.

#### AUTHORS

National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
Tumor Gene Index  
Unpublished (1997)

#### JOURNAL

Contact: Robert Strausberg, Ph.D.  
Email: cgapbs-remail.nih.gov  
Tissue Procurement: Christopher A. Moskaluk, M.D., Ph.D., Michael  
Emmert-Buck, M.D., Ph.D.

#### COMMENT

CDNA Library Preparation: M. Bento Soares, Ph.D.  
DNA Sequencing by: Washington University Genome Sequencing Center  
Clone distribution: NCI-CGAP clone distribution information can be  
found through the I.M.A.G.E.B. Consortium/LLNL at:  
www.bio.llnl.gov/bdrp/image/image.html  
Insert Length: 381 Std Error: 0.00  
Seq primer: -40m13 fwd. ER from Amersham  
High quality sequence stop: 79.

#### FEATURES

Location/Qualifiers  
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/db\_xref="taxon:9606"  
/clone="IMAGE:1519032"  
/clone\_lib="NCI\_CGAP\_GC4"  
/tissue\_type="pooled germ cell tumors"  
/la0="host="DH10B"  
/note="Vector: pRT3D-Pac (Pharmacia) with a modified  
polylinker; 1st strand cDNA was prepared from 3 pooled  
germ cell tumors, and was then primed with a Not I -  
oligo(dT) primer. Double-stranded cDNA was ligated to Eco  
RI adaptors (Pharmacia), digested with Not I and cloned  
into the Not I and Eco RI sites of the modified pRT73  
vector. Library is normalized. Library was constructed by  
Bento Soares and M. Fatima Bonaldo."

BASE COUNT 113 a 87 c 81 g 105 t  
ORIGIN

#### alignment\_scores:

Quality: 508.00 Length: 99  
Ratio: 5.131 Gaps: 0  
Percent Similarity: 100.000 Percent Identity: 100.000

#### alignment\_block:

US-09-801-115-2 x AA911088/rev ..  
Align seg 1/1 to reverse of: AA911088 from: 1 to: 386

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357 ATGATTAACCTGCAGCGAATAATTAACATCCCTTCCTGCTAGT 308  
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17 TTGAGTATGATGATGATGATGATGATGATGATGATGATGATGAT 34  
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307 GAAAGCCAGCTGAAGATGCTGCGCTGGATATATATCACTGCTGTAA 258  
 34 hTthrValPheMetLeuIleValSerValIleAlaLeuIleProGluThr 50  
 257 CAACAGTATTCATGCTCATGCTATCTGTGGTGGACATGATACCAAGAAC 208  
 51 ThrThrLeuThrValGlyGlyValPheAlaLeuValThrAlaValCy 67  
 207 ACAACATTGACAGTTGGTGGAGGGGTGTTGCACTGTGACAGCATATG 158  
 67 sCysLeuAlaAspGlyAlaLeuIleTyrArgLysLeuLeuPheAsnPro 84  
 157 CTGCTTCCCGACGGGGCCCTTATTATCCGAGACTTCTGTTCATCCCA 108  
 84 ergLysProTyrGlnLysLysProValHisGluLysGluValLeu 99  
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 seq\_name: gb\_est1:AI989739  
 seq\_documentation\_block:  
 LOCUS AI989739 391 bp mRNA linear EST 27-OCT-1999  
 DEFINITION wu21e10.x1 Soares\_Dieckgraefe.colon\_NHCD Homo sapiens cDNA clone  
 IMAGE:2520714 3', mRNA sequence.  
 ACCESSION AI989739  
 VERSION AI989739.1 GI:5836620  
 KEYWORDS EST.  
 SOURCE human.  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
 1 (bases 1 to 391)  
 NCI-CCAP http://www.ncbi.nlm.nih.gov/ncicgap.  
 National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
 Tumor Gene Index  
 Unpublished (1997)  
 JOURNAL Contact: Robert Strausberg, Ph.D.  
 Email: cgaps-remail.nih.gov  
 This clone is available royalty-free through LNL; contact the  
 IMAGE Consortium (info@image.jnl.gov) for further information.  
 COMMENT Seq primer: -400P from Gibco.  
 FEATURES  
 source  
 1..391  
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 /db\_xref="taxon:9606"  
 /clone="IMAGE:2520714"  
 /clone\_lib="Soares\_Dieckgraefe.colon\_NHCD"  
 /tissue\_type="colonic mucosa from 3 patients with Crohn's disease"  
 /lab\_host="DH10B (phage-resistant)"  
 /note="Organ: colon; Vector: pT73D-Pac (Pharmacia) with a modified polylinker; Site\_1: Not I; Site\_2: Eco RI; 1st strand cDNA was primed with a Not I - oligo(dT) primer [5' TGTTACCAATCGAAGTGGAGCGGCGCGCTTTTCTTTTCTTTTCTTTT 3'], double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT73D vector. Library went through one round of normalization. Tissue samples provided by Dr. Brian Dieckgraefe (Washington University, dieckelm.wustl.edu): colonic mucosa represents a range of disease involvement from moderate to severe Crohn's disease; samples include both perforating (fistulas) and non-perforating samples. Library constructed by Bento Soares and M. Fatima Bonaldo."

BASE COUNT 113 a 90 c 81 g 107 t  
 ORIGIN

alignment\_scores:  
 Quality: 508.00 Length: 99  
 Ratio: 5.131 Gaps: 0  
 Percent Similarity: 100.000 Percent Identity: 100.000

alignment\_block:  
 US-09-801-115-2 x AI989739/rev ..  
 Align seg 1/1 to reverse of: AI989739 from: 1 to: 391  
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 358 ATGGATTAACGTGCAGCGCAAAATATAACATCGCCCTTCTGCTCAGTGT 309  
 17 LysGlyHisValLysMetLeuArgLeuAspIleLeuAsnSerLeuValT 34  
 308 GAAAGCCAGCTGAAGATGCTGCGCTGGATATATCACTGCTGTAA 259  
 34 hTthrValPheMetLeuIleValSerValIleAlaLeuIleProGluThr 50  
 258 CAACAGTATTCATGCTCATGCTATCTGTGGTGGACATGATACCAAGAAC 209  
 51 ThrThrLeuThrValGlyGlyValPheAlaLeuValThrAlaValCy 67  
 208 ACAACATTGACAGTTGGTGGAGGGGTGTTGCACTGTGACAGCATATG 159  
 67 sCysLeuAlaAspGlyAlaLeuIleTyrArgLysLeuLeuPheAsnPro 84  
 158 CTGCTTCCCGACGGGGCCCTTATTATCCGAGACTTCTGTTCATCCCA 109  
 84 ergLysProTyrGlnLysLysProValHisGluLysGluValLeu 99  
 108 GCGGTCTTACCAGAAAAGCCTGTGCATGAAAAAAGAGTTTGG 62  
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 seq\_documentation\_block:  
 LOCUS AM183193 396 bp mRNA linear EST 18-NOV-1999  
 DEFINITION xj67f11.x1 Soares\_NFL.T.GBC.S1 Homo sapiens cDNA clone  
 IMAGE:2662317 3', mRNA sequence.  
 ACCESSION AM183193  
 VERSION AM183193.1 GI:6451679  
 KEYWORDS EST.  
 SOURCE human.  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
 1 (bases 1 to 396)  
 NCI-CCAP http://www.ncbi.nlm.nih.gov/ncicgap.  
 National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
 Tumor Gene Index  
 Unpublished (1997)  
 JOURNAL Contact: Robert Strausberg, Ph.D.  
 Email: cgaps-remail.nih.gov  
 This clone is available royalty-free through LNL; contact the  
 IMAGE Consortium (info@image.jnl.gov) for further information.  
 COMMENT Seq primer: -400P from Gibco.  
 FEATURES  
 source  
 1..396  
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 /db\_xref="taxon:9606"  
 /clone="IMAGE:2662317"  
 /clone\_lib="Soares\_NFL.T.GBC.S1"  
 /lab\_host="DH10B"  
 /note="Organ: pooled; Vector: pT73D-Pac (Pharmacia) with a modified polylinker; Site\_1: Not I; Site\_2: Eco RI; Equal amounts of plasmid DNA from three normalized libraries (fetal lung NBH119W, testis NHT, and B-cell NCI-CCAP GCB1) were mixed, and ss circles were made in vitro. Following HAP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from pools of 5,000 clones made from the same 3 libraries. The pools consisted of 1 M.A.G.E. clones 297480-302087, 682637-687239, 726408-728711, and 729096-731399. Subtraction by Bento Soares and M. Fatima Bonaldo."

BASE COUNT 115 a 92 c 80 g 109 t  
 ORIGIN

## alignment\_scores:

Quality: 508.00 Length: 99  
Ratio: 5.131 Gaps: 0  
Percent Similarity: 100.000 Percent Identity: 100.000

## alignment\_block:

US-09-801-115-2 x AM183193/rev ..

Align seg 1/1 to reverse of: AM183193 from: 1 to: 396

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17 LysGlyHisValLysMetLeuArgLeuAspIleLeuSerLeuValT 34
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|||||
34 hrThrValPheMetLeuIleValSerValLeuAlaLeuIleProGluThr 50
|||||
259 CAACAGTATCATGCTCATCTGATCTGTGGCAGCATGATACAGAAACC 210
|||||
51 ThrThrLeuThrValGlyGlyValAlaPheAlaLeuValThrAlaValCy 67
|||||
209 ACAACATTGACAGTGTGGAGGGGTGTTGCACCTGTGACACAGCATATG 160
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67 scLysLeuAlaAspGlyAlaLeuIleTyrArgLysLeuLeuPheAsnProS 84
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159 CTGCTCTCCGACGGCGCCCTTATTTACCGAGCTTCTGTTCATGCCA 110
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84 ergLysProTyrGlnLysLysProValHisGluLysLysGluValLeu 99
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109 GCGGCTCTTACCAGAAAAGCCTGTGCATGAAGAAAGAGTTTG 63

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seq\_name: gb\_est1:AA516431

seq\_documentation\_block:

LOCUS AA516431 399 bp mRNA linear EST 13-AUG-1997  
DEFINITION ne58a03.s1 NCI\_CGAP\_C03 Homo sapiens cDNA clone IMAGE:901516 3',  
mRNA sequence.

ACCESSION AA516431 GI:2255955

VERSION AA516431.1 GI:2255955

KEYWORDS EST.

SOURCE human.

ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 399)

AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.

TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),

JOURNAL Tumor Gene Index

COMMENT Unpublished (1997)

Contact: Robert Strausberg, Ph.D.

Email: cgaps-remail.nih.gov

Tissue Procurement: Elias Campo, M.D., Michael R. Emmert-Buck, M.D.,

Ph.D.

cDNA Library Preparation: M. Bento Soares, Ph.D.

cDNA Library Arraying: Greg Lennon, Ph.D.

DNA Sequencing by: Washington University Genome Sequencing Center

Clone distribution: NCI-CGAP clone distribution information can be

found through the I.M.A.G.E. Consortium/LNL at:

www-bio.llnl.gov/bdrp/image/image.html

Insert Length: 527 Std Error: 0.00

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Location/Qualifiers

1. .399

/organism="Homo sapiens"

/db\_xref="taxon:9606"

/clone="IMAGE:901516"

/clone\_11b="NCI\_CGAP\_C03"

/sex="pooled"

/tissue\_type="colon"

/lab\_host="DH10B"

/note="vector: pT73D-Pac (Pharmacia) with a modified

polylinker: Site\_1: Not I; Site\_2: Eco RI; 1st strand cDNA

was prepared from 12 pooled bulk tumor samples and primed

with a Not I - oligo(dT) primer. Double-stranded cDNA was

ligated to Eco RI adaptors (Pharmacia), digested with Not

I and cloned into the Not I and Eco RI sites of the

modified pT73 vector. Library went through one round of

normalization."

BASE COUNT 115 a 94 c 81 g 109 t

ORIGIN

## alignment\_scores:

Quality: 508.00 Length: 99  
Ratio: 5.131 Gaps: 0  
Percent Similarity: 100.000 Percent Identity: 100.000

## alignment\_block:

US-09-801-115-2 x AA516431/rev ..

Align seg 1/1 to reverse of: AA516431 from: 1 to: 399

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1 MetaspasnValGlnProLysIleLysHisArgProPheCysPheSerVa 17
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357 ATGGATTAACGTGTCAGACGAAATATAACATCGCCCTTGCTTCAGTGT 308
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17 LysGlyHisValLysMetLeuArgLeuAspIleLeuSerLeuValT 34
|||||
307 GAAGGCCGCGTGAAGATGCTGGCGGTGATATATCACTCACTGTTAA 258
|||||
34 hrThrValPheMetLeuIleValSerValLeuAlaLeuIleProGluThr 50
|||||
257 CAACAGTATCATGCTCATCTGATCTGTGGCAGCATGATACAGAAACC 208
|||||
51 ThrThrLeuThrValGlyGlyValAlaPheAlaLeuValThrAlaValCy 67
|||||
207 ACAACATTGACAGTGTGGAGGGGTGTTGCACCTGTGACACAGCATATG 158
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67 scLysLeuAlaAspGlyAlaLeuIleTyrArgLysLeuLeuPheAsnProS 84
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157 CTGCTCTCCGACGGCGCCCTTATTTACCGAGCTTCTGTTCATGCCA 108
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seq\_name: gb\_est1:AI989747

seq\_documentation\_block:

LOCUS AI989747 402 bp mRNA linear EST 27-OCT-1999  
DEFINITION wu21f09.x1 Soares-Dieckgraefe\_colon\_NHCD Homo sapiens cDNA clone  
IMAGE:2520713 3', mRNA sequence.

ACCESSION AI989747

VERSION AI989747.1 GI:5836628

KEYWORDS EST.

SOURCE human.

ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 402)

AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.

TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),

JOURNAL Tumor Gene Index

COMMENT Unpublished (1997)

Contact: Robert Strausberg, Ph.D.

Email: cgaps-remail.nih.gov

This clone is available royalty-free through LNL; contact the

IMAGE Consortium (info@image.llnl.gov) for further information.

Seq primer: -40up from Gibco.

Location/Qualifiers

1. .402

/organism="Homo sapiens"

/db\_xref="taxon:9606"

/clone="IMAGE:2520713"

/clone\_11b="NCI\_CGAP\_C03"

/sex="pooled"



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seq.documentatation_block:
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DEFINITION g94b08.s1 Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone
IMAGE:1694391 3', mRNA sequence.
ACCESSION  A1128804
VERSION    A1128804.1  GI:3597318
KEYWORDS   EST.
SOURCE     human.
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
REFERENCE  1 (bases 1 to 423)
AUTHORS   NC-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE     National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
            Tumor Gene Index
JOURNAL   Unpublished (1997)
COMMENT   Contact: Robert Strausberg, Ph.D.
            Email: cgaps@email.nih.gov
            This clone is available royalty-free through LNLN; contact the
            IMAGE Consortium (info@image.llnl.gov) for further information.
            Insert Length: 382 Std Error: 0.00
            Seq primer: -40m13 fwd. ET from Amersham
            High quality sequence stop: 413.
FEATURES
    source
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        /db_xref="taxon:9606"
        /clone_lib="IMAGE:1694391"
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        /lab_host="DH10B (ampicillin resistant)"
        /note="Organ: heart; Vector: p773D (Pharmacia) with a
            modified polylinker; Site:1: Not I; Site:2: Eco RI; 1st
            strand cDNA was primed with a Not I - oligo(dT) primer [5'
            TGTTCACATCGAAGTGGAGCGGCGCATCTTTTCTTTTCTTTT 3']
            double-stranded cDNA was size selected, ligated to Eco RI
            adaptors (Pharmacia), digested with Not I and cloned into
            the Not I and Eco RI sites of a modified p773 vector
            (Pharmacia). Library went through one round of
            normalization to a Cot = 5. Library constructed by
            M.Fatima Bonaldo. This library was constructed from the
            same fetus as the fetal lung library, Soares fetal lung
            NBHL19W."
BASE COUNT  116 a      101 c      89 g      117 t
ORIGIN
alignment_scores:
    Quality: 508.00      Length: 99
    Ratio: 5.131      Gaps: 0
    Percent Similarity: 100.000      Percent Identity: 100.000
alignment_block:
US-09-801-115-2 x A1128804/rev ..
Align seg 1/1 to reverse of: A1128804 from: 1 to: 423
1 MetAPASnvaIaGlnProLysIleLysHsArpProPhcysPheSeVa 17
|||||
333 ATGGATTAACGTCGACCGCAAAATTAACATCGCCCTTCTGCTTACGT 304
17 llysglyhlsvalysmelluargleuaspilleyllesnsleuValt 34
|||||
303 GAAAGCGCCACGTCGAGATGCTGGCGCTGATATTAACAACACACGTAA 254
34 hrtThValPheMetleuIleValSerValleuAlaLeuIleProGluhr 50
|||||
253 CAACAGTATTCATGCTCATCGTATCTGTGGCAGCTGATCCAGAAAC 204
51 ThrTrleuThValGlyGlyValPheAlaLeuValThrAlaValcy 67
|||||
203 ACAACATTGACAGTGTGGAGGGGTGTTTGCACCTTGTGACAGCAGTATG 154

```

```

seq.name: gb_est1:AA455042
seq.documentatation_block:
LOCUS      AA455042      427 bp      mRNA      linear      EST 06-JUN-1997
DEFINITION aa04a07.s1 Soares_NbHMPu_S1 Homo sapiens cDNA clone IMAGE:812244
3', mRNA sequence.
ACCESSION  AA455042
VERSION    AA455042.1  GI:2177818
KEYWORDS   EST.
SOURCE     human.
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
REFERENCE  1 (bases 1 to 427)
AUTHORS   Hillier,L., Allen,M., Bowles,L., Dubuque,T., Geisel,G., Jost,S.,
            Kuababa,T., Lacy,M., Le,N., Lennon,G., Marra,M., Martin,J., Moore,B.,
            , Schellenberg,K., Stepleoe,M., Tan,F., Theising,B., White,T., Wylie
            , T., Waterston,R., and Wilson,R.
JOURNAL   WashU-Merck EST Project 1997
COMMENT   Unpublished (1997)
            Contact: Wilson RK
            Washington University School of Medicine
            4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
            Tel: 314 286 1800
            Fax: 314 286 1810
            Email: est@watson.wustl.edu
            This clone is available royalty-free through LNLN; contact the
            IMAGE Consortium (info@image.llnl.gov) for further information.
            Seq primer: -41m13 fwd. ET from Amersham
            High quality sequence stop: 395.
FEATURES
    source
        1..427
        /organism="Homo sapiens"
        /db_xref="GDB:6043155"
        /db_xref="taxon:9606"
        /clone_lib="IMAGE:812244"
        /clone_lib="Soares_NbHMPu_S1"
        /tissue_type="Pooled human melanocyte, fetal heart, and
            pregnant uterus"
        /lab_host="DH10B"
        /note="Organ: mixed (see below); Vector: p773D-Pac
            (Pharmacia) with a modified polylinker; Site:1: Not I;
            Site:2: Eco RI; Equal amounts of plasmid DNA from three
            normalized libraries (melanocyte 2NBHM, pregnant uterus
            NBHPU, and fetal heart NBHH19W) were mixed, and ss circles
            were made in vitro. Following HAP purification, this DNA
            was used as tracer in a subtractive hybridization
            reaction. The driver was PCR-amplified cDNAs from pools of
            5,000 clones made from the same 3 libraries. The pools
            consisted of I.M.A.G.E. clones 260232-265223,
            340488-345479, and 484488-489479."
BASE COUNT  119 a      101 c      91 g      116 t
ORIGIN
alignment_scores:
    Quality: 508.00      Length: 99
    Ratio: 5.131      Gaps: 0
    Percent Similarity: 100.000      Percent Identity: 100.000
alignment_block:
US-09-801-115-2 x AA455042/rev ..
Align seg 1/1 to reverse of: AA455042 from: 1 to: 427

```

1 MetaspasnaValGlnProLysIleLysHisArgProPheCysPheSerVa 17  
 356 ATGATACAGTCGACGCCGAAATTAACATCGCCCTCTGCTCAGAGT 307  
 17 LlysgLysValIleLysMetLeuArgLeuAspIleIleAsnSerLeuValT 34  
 306 GAAAGGCCAGCTGAAGATGCTGCGGATATATATCAACCTGCTGTA 257  
 34 hThrValPheMetLeuIleValSerValLeuAlaLeuIleProGluThr 50  
 256 CAACAGATTATGCTCATCTGATCTGTGTCGACATGATACCGAACC 207  
 51 ThrThrLeuThrValGlyGlyValPheAlaLeuValThrAlaValCy 67  
 206 ACAACATTGACAGTGTGAGGCGGCTTTCACCTGTCAGACAGATATG 157  
 67 sCysLeuAlaAspGlyAlaLeuIleTyrArgLysLeuLeuPheAsnProS 84  
 156 CTGCTTGGCCGACGCGGCCCTTATTACCGAAGCTTCTGTCAATCCCA 107  
 84 ergLysProTyrGlnLysLysProValHisGluLysLysGluValLeu 99  
 106 GCGGCTCTTACCCAGAAAAGCCTGTCATGATAAAAAGAGATTG 60

seq\_name: gb\_est1:AA429945

seq\_documentation\_block:

LOCUS AA429945 432 bp mRNA linear EST 16-OCT-1997  
 DEFINITION zw67f10.s1 Soares testis\_NHT Homo sapiens cDNA clone IMAGE:781291

ACCESSION AA429945

VERSION AA429945.1 GI:2113244

KEYWORDS EST.

SOURCE human.

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.

REFERENCE 1 (bases 1 to 432)

AUTHORS

Hillier, L., Allen, M., Bowles, L., Dubucque, T., Geisel, G., Jost, S.,  
 Kuchba, T., Lacy, M., Le, N., Lennon, G., Marra, M., Martin, J., Moore, B.,  
 Schellenberg, K., Stepien, M., Tan, F., Theisling, B., White, Y., Wyllie,  
 T., Waterston, R. and Wilson, R.

WashU-Merck EST Project 1997

Unpublished (1997)

Contact: Wilson RK

Washington University School of Medicine

4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108

Tel: 314 286 1800

Fax: 314 286 1810

Email: est@wustl.edu

This clone is available royalty-free through LNL; contact the

IMAGE Consortium (info@image.llnl.gov) for further information.

Seq primer: -41m13 fwd. ET from Amersham

High quality sequence stop: 421.

FEATURES

Source

1.432  
 /organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
 /clone="IMAGE:781291"  
 /clone\_lib="Soares\_testis\_NHT"  
 /sex="male"  
 /lab\_host="DH10B"  
 /note="Vector: pT73D-Pac (Pharmacia) with a modified  
 polylinker. Site\_1: Not I; Site\_2: Eco RI; 1st strand cDNA  
 was prepared from mRNA obtained from Clontech Laboratories  
 Inc., and primed with a Not I - oligo(dT) primer [5'  
 TGTACCAATCTGAAGTGGAGCGCCGCCCAATTTTATTTT 3']  
 Double-stranded cDNA was ligated to Eco RI adaptors  
 (Pharmacia), digested with Not I and cloned into the Not I  
 and Eco RI sites of the modified pT73 vector. Library  
 went through one round of normalization to Cots, and was  
 constructed by Bento Soares and W. Fatima Bonaldo."

BASE COUNT 119 a 101 c 92 g 120 t  
 ORIGIN

alignment\_scores:

Quality: 508.00 Length: 99

Ratio: 5.131 Gaps: 0

Percent similarity: 100.000 Percent identity: 100.000

alignment\_block:

US-09-801-115-2 x AA429945/rev ..

Align seg 1/1 to reverse of: AA429945 from: 1 to: 432

1 MetaspasnaValGlnProLysIleLysHisArgProPheCysPheSerVa 17  
 361 ATGATACAGTCGACGCCGAAATTAACATCGCCCTCTGCTCAGAGT 312  
 17 LlysgLysValIleLysMetLeuArgLeuAspIleIleAsnSerLeuValT 34  
 311 GAAAGGCCAGCTGAAGATGCTGCGGATATATATCAACCTGCTGTA 262  
 34 hThrValPheMetLeuIleValSerValLeuAlaLeuIleProGluThr 50  
 261 CAACAGATTATGCTCATCTGATCTGTGTCGACATGATACCGAACC 212  
 51 ThrThrLeuThrValGlyGlyValPheAlaLeuValThrAlaValCy 67  
 211 ACAACATTGACAGTGTGAGGCGGCTTTCACCTGTCAGACAGATATG 162  
 67 sCysLeuAlaAspGlyAlaLeuIleTyrArgLysLeuLeuPheAsnProS 84  
 161 CTGCTTGGCCGACGCGGCCCTTATTACCGAAGCTTCTGTCAATCCCA 112  
 84 ergLysProTyrGlnLysLysProValHisGluLysLysGluValLeu 99  
 111 GCGGCTCTTACCCAGAAAAGCCTGTCATGATAAAAAGAGATTG 65

seq\_name: gb\_est1:A1078580

seq\_documentation\_block:

LOCUS A1078580 452 bp mRNA linear EST 10-AUG-1998

DEFINITION 0237H05.X1 Soares\_NhMPu\_S1 Homo sapiens cDNA clone IMAGE:1677561

3', mRNA sequence.

ACCESSION A1078580

VERSION A1078580.1 GI:3412988

KEYWORDS EST.

SOURCE human.

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.

REFERENCE 1 (bases 1 to 452)

AUTHORS

NCI-CGAP http://www.ncbi.nlm.nih.gov/cgi/gap.  
 National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
 Tumor Gene Index

Unpublished (1997)

Contact: Robert Strausberg, Ph.D.

Email: cgaps-remail.nih.gov

This clone is available royalty-free through LNL; contact the

IMAGE Consortium (info@image.llnl.gov) for further information.

Seq primer: -40m13 fwd. ET from Amersham

High quality sequence stop: 410.

location/Qualifiers

1.452

Source

/organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
 /clone="IMAGE:1677561"  
 /clone\_lib="Soares\_NhMPu\_S1"  
 /tissue\_type="Pooled human melanocyte, fetal heart, and  
 pregnant uterus"  
 /lab\_host="DH10B"  
 /note="Organ: mixed (see below); Vector: pT73D-Pac  
 (Pharmacia) with a modified polylinker; site\_1: Not I;

Site 2: Eco RI: Equal amounts of plasmid DNA from three normalized libraries (melanocyte 2NDH, pregnant uterus NBHPU, and fetal heart NBH19W) were mixed, and ss circles were made in vitro. Following HAP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from pools of 5,000 clones made from the same 3 libraries. The pools consisted of I.M.A.G.E. clones 260232-265223, 340488-345479, and 484488-489479."

BASE COUNT 125 a 110 c 97 g 120 t  
ORIGIN

## alignment\_scores:

Quality: 508.00 Length: 99  
Ratio: 5.131 Gaps: 0  
Percent Similarity: 100.000 Percent Identity: 100.000

## alignment\_block:

US-09-801-115-2 x A1078580/rev ..

Align seg 1/1 to reverse of: A1078580 from: 1 to: 452

```

1 MetaspasnaValGlnProLysIleLysHisArgProPhocysPheSerVa 17
|||||
359 ATGGATTAACGTCGACGCCGAAATATAAATCATCGCCCTTCTGCTTCACTGT 310
17 LlysGlyHisValLysMetLeuArgLeuAspIleIleAsnSerLeuValT 34
|||||
309 GAAAGGCCACGTGAAGATGCTGCGCTGATATATATCACTCACTGTAA 260
34 hTrhValPheMetLeuIleValSerValLeuAlaLeuIleProGluThr 50
|||||
259 CAACAGATTATCTCATCTATCTGTGTGGCATGATACCAAGAAC 210
51 ThrThrLeuThrValGlyGlyValPheAlaLeuValThrAlaValCyt 67
|||||
209 ACAACATTGACAGTTGGTGGAGGGCTTTGCACTTGTGACAGCATATG 160
67 sCysLeuAlaAspGlyAlaLeuIleTyrArgLysLeuLeuPheAsnProS 84
|||||
159 CTGCTTCCTTACCGAAGAACCTGTATTACCGAAGCTTCTTCATATCCA 110
84 ergGlyProTyrGlnLysLysProValHisGluLysLysGluValLeu 99
|||||
109 GCGGCTCTTACCGAAGAACCTGTGATGATGAAAAAAGAGTTTGG 63

```

seq\_name: gb\_est1:A1743235

## seq\_documentation\_block:

LOCUS A1743235 453 bp mRNA linear EST 20-DEC-1999  
DEFINITION wg90a02.x1 Soares\_NSF\_F8\_9W\_OT\_PA\_P\_S1 Homo sapiens cDNA clone  
IMAGE:2372330 3', mRNA sequence.

ACCESSION A1743235  
VERSION A1743235.1 GI:5111523

## KEYWORDS

EST.  
human.

## ORGANISM

Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

## REFERENCE

1 (bases 1 to 453)  
NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.  
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
Tumor Gene Index  
Unpublished (1997)

## JOURNAL

CONTACT: Robert Strausberg, Ph.D.  
Email: [cgapsb-r@mail.nih.gov](mailto:cgapsb-r@mail.nih.gov)  
This clone is available royalty-free through LNL; contact the  
IMAGE Consortium ([info@image.lnl.gov](mailto:info@image.lnl.gov)) for further information.  
Insert length: 378 Std Error: 0.00  
Seq primer: -400P from Gibco.

FEATURES  
source 1..453  
Location/Qualifiers

/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/clone="IMAGE:2372330"  
/clone\_id="Soares\_NSF\_F8\_9W\_OT\_PA\_P\_S1"  
/lab\_host="DH10B"  
/note="Organ: pooled; Vector: pT73D-Pac (Pharmacia) with  
a modified polylinker; Site:1: Not 1; Site:2: Eco RI;  
Equal amounts of plasmid DNA from five normalized  
libraries were mixed, and ss circles were made in vitro.  
Following HAP purification, this DNA was used as tracer in  
a subtractive hybridization reaction. The driver was  
PCR-amplified cDNAs from pools of 5,000 clones made from  
the same 3 libraries. The pools consisted of the following  
libraries and clones: Soares NBHSP pool 1:  
309384-310919, 323208-325895 Soares NB2HP pool 1:  
145032-147335, 147720-148103, 148872-149255, 15002 -  
150407, 151176-152327 Soares NB2HR-9W pool 1:  
758280-760583, 772104-774407 Soares NBHFA pool 1:  
304776-306511, 320136-322823, 326280-326663 Soares NBHOT  
pool 1: 723720-726407, 739080-740999 Subtraction by Bento  
Soares and M. Fatima Bonaldo."

BASE COUNT 123 a 109 c 93 g 128 t  
ORIGIN

## alignment\_scores:

Quality: 508.00 Length: 99  
Ratio: 5.131 Gaps: 0  
Percent Similarity: 100.000 Percent Identity: 100.000

## alignment\_block:

US-09-801-115-2 x A1743235/rev ..

Align seg 1/1 to reverse of: A1743235 from: 1 to: 453

```

1 MetaspasnaValGlnProLysIleLysHisArgProPhocysPheSerVa 17
|||||
362 ATGGATTAACGTCGACGCCGAAATATAAATCATCGCCCTTCTGCTTCACTGT 313
17 LlysGlyHisValLysMetLeuArgLeuAspIleIleAsnSerLeuValT 34
|||||
312 GAAAGGCCACGTGAAGATGCTGCGCTGATATATATCACTCACTGTAA 263
34 hTrhValPheMetLeuIleValSerValLeuAlaLeuIleProGluThr 50
|||||
262 CAACAGATTATCTCATCTATCTGTGTGGCATGATACCAAGAAC 213
51 ThrThrLeuThrValGlyGlyValPheAlaLeuValThrAlaValCyt 67
|||||
212 ACAACATTGACAGTTGGTGGAGGGCTTTGCACTTGTGACAGCATATG 163
67 sCysLeuAlaAspGlyAlaLeuIleTyrArgLysLeuLeuPheAsnProS 84
|||||
162 CTGCTTCCTTACCGAAGAACCTGTATTACCGAAGCTTCTTCATATCCA 113
84 ergGlyProTyrGlnLysLysProValHisGluLysLysGluValLeu 99
|||||
112 GCGGCTCTTACCGAAGAACCTGTGATGATGAAAAAAGAGTTTGG 66

```

seq\_name: gb\_est2:BF109912

## seq\_documentation\_block:

LOCUS BF109912 468 bp mRNA linear EST 20-OCT-2000  
DEFINITION 7171103.x1 Soares\_NSF\_F8\_9W\_OT\_PA\_P\_S1 Homo sapiens cDNA clone  
IMAGE:3526805 3' similar to TR:09U141 09U141 CHROMKINE-LIKE FACTOR  
1. [1]'; mRNA sequence.

ACCESSION BF109912  
VERSION BF109912.1 GI:10939602

## KEYWORDS

EST.  
human.  
Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1 (bases 1 to 468)  
 AUTHORS NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.  
 TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
 JOURNAL Tumor Gene Index  
 COMMENT Unpublished (1997)  
 Contact: Robert Strausberg, Ph.D.  
 Email: [cgapbs-r@mail.nih.gov](mailto:cgapbs-r@mail.nih.gov)  
 This clone is available royalty-free through LNL; contact the  
 IMAGE Consortium ([info@image.lnl.gov](mailto:info@image.lnl.gov)) for further information.  
 Seq primer: 400p from GIBCO.  
 FEATURES  
 source  
 1. 468  
 /organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
 /clone="IMAGE:3526805"  
 /clone\_1lb="Soares\_NSF\_P8\_9W\_OT\_PA\_P\_S1"  
 /lab\_host="DH10B"  
 /note="Organ: pooled; Vector: pT73D-Pac (Pharmacia) with  
 a modified polylinker; Site\_1: Not I; Site\_2: Eco RI;  
 Equal amounts of plasmid DNA from five normalized  
 libraries were mixed, and ss circles were made in vitro.  
 Following HAP purification, this DNA was used as tracer in  
 a subtractive hybridization reaction. The driver was  
 PCR-amplified cDNAs from pools of 5,000 clones made from  
 the same 5 libraries. The pools consisted of the following  
 libraries and clones: Soares NBHF pool 1:  
 309384-310919, 323208-325895 Soares NB2HP pool 1:  
 145032-147335, 147720-148103, 148872-149255, 15002 -  
 150407, 151176-152327 Soares NB2HR8-9W pool 1:  
 758280-760583, 772104-774407 Soares NBHPA pool 1:  
 304776-306311, 320136-322823, 326280-32663 Soares NBHOT  
 pool 1: 723720-726407, 739080-740999 Subtraction by Bento  
 Soares and M. Fatima Bonaldo."

BASE COUNT 127 a 116 c 102 g 123 t  
 ORIGIN

alignment\_scores:  
 Quality: 508.00 Length: 99  
 Ratio: 5.131 Gaps: 0  
 Percent Similarity: 100.000 Percent Identity: 100.000

alignment\_block:  
 US-09-801-115-2 x BF109912/rev ..

Align seg 1/1 to reverse of: BF109912 from: 1 to: 468

```

1 MetaspasnaValGlnProLysIleLysHisArgProPheserVa 17
|||||
362 ATGATTAACGTCGACGCCGAAATAAACATCGCCCTTCGCTCACTGT 313
|||||
17 LlysGlyHisValLysMetLeuArgLeuAspIleIleAsnSerLeuValT 34
|||||
312 GAAAGGCCACGCTGAGATGCTCGCGCTGATATTATCACTACTGCTAA 263
|||||
34 hrrhrValPheMetLeuIleValSerValLeuAlaLeuIleProGluThr 50
|||||
262 CAACAGATTTCATGCTCATGTCATCTGTGGCAGCATGATACCGAAGCC 213
|||||
51 ThrThrLeuThrValGlyGlyValAlaPheAlaLeuValThrAlaValCy 67
|||||
212 ACAACATTGACAGTTGGTGAGGGGTGTTGCACTGTGACAGCAGTATG 163
|||||
67 scysLeuAlaAspGlyAlaLeuIleTyrArgLysLeuLeuPheAsnPro 84
|||||
162 CTGCTCTTGGCCGACGGGCCCTTATTATCCGGAACCTTCTGTCATATCA 113
|||||
84 erGlyProTyrGlnLysLysProValHisGlyLysGlyValLeu 99
|||||
112 GCGGCTCTTACCAAGAAAGCGCTGTCATGAAAGAAAGAGTTTGG 66
|||||
seq_name: gb_est2:BF399486
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seq\_documentation\_block:

LOCUS BF399486 510 bp mRNA linear EST 27-NOV-2000  
 DEFINITION UI-R-CA1-bjb-b-12-0-UI.s1 UI-R-CA1 Rattus norvegicus cDNA clone  
 UI-R-CA1-bjb-b-12-0-UI 3', mRNA sequence.  
 ACCESSION BF399486  
 VERSION BF399486.1 GI:11384494  
 KEYWORDS EST.  
 SOURCE Norway rat.  
 ORGANISM Rattus norvegicus  
 Rattus norvegicus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;

REFERENCE 1 (bases 1 to 510)  
 AUTHORS Bonaldo,M.F., Lennon,G. and Soares,M.B.  
 TITLE Normalization and subtraction: two approaches to facilitate gene  
 discovery  
 JOURNAL Genome Res. 6 (9), 791-806 (1996)  
 MEDLINE 97044477  
 COMMENT Contact: Soares, MB  
 Program for Rat Gene Discovery and Mapping  
 University of Iowa  
 451 Eckstein Medical Research Building Iowa City, IA 52242, USA  
 Tel: 319 335 8250  
 Fax: 319 335 9365  
 Email: [msoares@blue.weeg.uiowa.edu](mailto:msoares@blue.weeg.uiowa.edu)  
 The sequence contained an oligo-dT track that was present in the  
 oligonucleotide that was used to prime the synthesis of first  
 strand cDNA and therefore this may represent a bonafide poly A  
 tail. cDNA library Preparation: M.B. Soares lab Clone distribution:  
 clones will be available through Research Genetics ([www.resgen.com](http://www.resgen.com))  
 Seq primer: M13 Forward  
 POLYA=Yes..

FEATURES  
 source  
 1. 510  
 Location/Qualifiers  
 /organism="Rattus norvegicus"  
 /strain="Sprague-Dawley"  
 /db\_xref="taxon:10116"  
 /clone="UI-R-CA1-bjb-b-12-0-UI"  
 /clone\_1lb="UI-R-CA1"  
 /lab\_host="DH10B (Life Technologies)"  
 /note="Vector: pT73D-Pac (Pharmacia) with a modified  
 polylinker; Site\_1: Not I; Site\_2: Eco RI; The UI-R-CA1  
 library is a subtracted library derived from the following  
 tissues: thalamus, cerebral cortex, corpus striatum, medulla, pons  
 hippocampus. For a detailed description of the library  
 from which this clone was derived, please visit our web  
 site at: [ratest.eng.uiowa.edu](http://ratest.eng.uiowa.edu). The subtraction has been  
 previously described in (Bonaldo, Lennon and Soares,  
 Genome Research 6:791-806, 1996)  
 TAG\_SEQ=None found"

BASE COUNT 130 a 131 c 104 g 145 t  
 ORIGIN

alignment\_scores:  
 Quality: 508.00 Length: 99  
 Ratio: 5.131 Gaps: 0  
 Percent Similarity: 100.000 Percent Identity: 100.000

alignment\_block:  
 US-09-801-115-2 x BF399486/rev ..

Align seg 1/1 to reverse of: BF399486 from: 1 to: 510

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1 MetaspasnaValGlnProLysIleLysHisArgProPheserVa 17
|||||
371 ATGGAATACGTCGACGCCGAAATAAACATCGCCCTTCGCTTAGTGT 322
|||||
17 LlysGlyHisValLysMetLeuArgLeuAspIleIleAsnSerLeuValT 34
|||||
321 GAAAGGCCACGTCGATGCTCGCGCTGATATTATCAACTACTGCTAA 272
|||||
```



34 hrThrValPheMetLeuIleValSerValIleuAlaLeuIleProGluThr 50  
 |||||||  
 271 CAACAGTATTCATGCTCATCGTATCTGTGTGGCAGCTATCCAGAAACC 222  
 51 ThrThrLeuThrValGlyGlyValPheAlaLeuValThrAlaValCly 67  
 |||||||  
 221 ACAACATTGACAGTGTGGAGGGGTGTTCACACTGTGGACAGCAGTATG 172  
 67 sCysLeuAlaAspGlyAlaLeuIleTyrArgLysLeuLeuPheAsnPro 84  
 |||||||  
 171 CTGCTCTCCGCGCGGGCCCTTATTACCGGAGAGCTCTGTTCATCCCA 122  
 84 erGlyProTyrGlnLysLysProValHisGlyLysLysGlyValLeu 99  
 |||||||  
 121 GCGGTCTTACCAAGAAAGCCGTGTGATGAAGAAAGAGTTTGG 75

seq\_name: gb\_est2:BG705303

seq\_documentation\_block:

LOCUS BG705303 524 bp mRNA linear EST 07-MAY-2001  
 DEFINITION 602687808F1 NIH\_MGC\_95 Homo sapiens cDNA clone IMAGE:4820568 5',  
 mRNA sequence.

ACCESSION BG705303 GI:13979504  
 VERSION BG705303.1  
 KEYWORDS EST.

SOURCE human.

ORGANISM

Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.

REFERENCE 1 (bases 1 to 524)  
 NIH-MGC http://mgc.nci.nih.gov/  
 TITLE National Institutes of Health, Mammalian Gene Collection (MGC)  
 JOURNAL Unpublished (1999)  
 COMMENT Contact: Robert Strausberg, Ph.D.  
 Email: cgapbs-remail.nih.gov  
 Tissue Procurement: Miklos Palcovits, M.D., Ph.D.  
 cDNA Library Preparation: Michael J. Brownstein (NHGRI), Shiraki  
 Toshiyuki and Piero Carninci (RIKEN)  
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)  
 DNA Sequencing by: Incyte Genomics, Inc.  
 Clone distribution: MGC clone distribution information can be  
 found through the I.M.A.G.E. Consortium/LNL at:  
 http://image.lnl.gov  
 Plate: L1AM10725 row: 0 column: 01  
 High quality sequence stop: 521.

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 /tissue\_type="hippocampus"  
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 /note="Organ: Brain; Vector: pBluescript (modified  
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 ); Oligo-dT primed using primer 5'-TTTTTTTTTTTNN-3',  
 size-selected for average insert size 2.5 kb and  
 normalized to R0F 5. This is a primary library enriched  
 for full-length clones and constructed using the  
 cap-trapper method (Carninci, in preparation). Library  
 constructed by M. Brownstein (NIH/NHGRI, National  
 Institutes of Health). Note: this is a NIH\_MGC Library."

BASE COUNT 142 a 113 c 138 g 131 t  
 ORIGIN

alignment\_scores:  
 Quality: 508.00 Length: 99  
 Ratio: 5.131 Gaps: 0  
 Percent Similarity: 100.000 Percent Identity: 100.000

alignment\_block:  
 US-09-801-115-2 x BG705303 ..

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 17 LysGlyHisValLysMetLeuArgLeuAspIleIleAsnSerLeuValr 34  
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 191 GAAAGGCCACGTGAAGATGCTGGGGCTGGATATTATCAATCACTGCTGTA 240  
 34 hrThrValPheMetLeuIleValSerValIleuAlaLeuIleProGluThr 50  
 |||||||  
 241 CAACAGTATTCATGCTCATCGTGTGTGGCAGCTGATACAGCAAGAAC 290  
 51 ThrThrLeuThrValGlyGlyValPheAlaLeuValThrAlaValCly 67  
 |||||||  
 291 ACAACATTGACAGTGTGGAGGGGTGTTCACACTGTGTGACAGCAGTATG 340  
 67 sCysLeuAlaAspGlyAlaLeuIleTyrArgLysLeuLeuPheAsnPro 84  
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 341 CTGCTCTCCGCGCGGGCCCTTATTACCGGAGAGCTCTGTTCATCCCA 390  
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seq\_name: gb\_est2:BG031757

seq\_documentation\_block:

LOCUS BG031757 534 bp mRNA linear EST 24-JAN-2001  
 DEFINITION 602299819F1 NIH\_MGC\_87 Homo sapiens cDNA clone IMAGE:4394093 5',  
 mRNA sequence.

ACCESSION BG031757 GI:12422364  
 VERSION BG031757  
 KEYWORDS EST.

SOURCE human.

ORGANISM

Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.

REFERENCE 1 (bases 1 to 534)  
 NIH-MGC http://mgc.nci.nih.gov/  
 TITLE National Institutes of Health, Mammalian Gene Collection (MGC)  
 JOURNAL Unpublished (1999)  
 COMMENT Contact: Robert Strausberg, Ph.D.  
 Email: cgapbs-remail.nih.gov  
 Tissue Procurement: DCTD/DTP  
 cDNA Library Preparation: Life Technologies, Inc.  
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)  
 DNA Sequencing by: Incyte Genomics, Inc.  
 Clone distribution: MGC clone distribution information can be  
 found through the I.M.A.G.E. Consortium/LNL at:  
 http://image.lnl.gov  
 Plate: L1AM10089 row: e column: 06  
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 Site\_2: SalI; Cloned unidirectionally; Oligo-dT primed.  
 Average insert size 1.383 kb. Library enriched for  
 full-length clones and constructed by Life Technologies.  
 Note: this is a NIH\_MGC Library."

BASE COUNT 163 a 108 c 132 g 131 t  
 ORIGIN

alignment\_scores:

Quality: 508.00 Length: 99  
Ratio: 5.131 Gaps: 0  
Percent Similarity: 100.000 Percent Identity: 100.000

alignment\_block:

US-09-801-115-2 x BG031757 ..

Align seg 1/1 to: BG031757 from: 1 to: 534

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173 GAAAGGCCACGTGAAGATGCTGGGGCTGGATATTATCACTACATGCTAA 222
34 hrThrValPheMetLeuIleValSerValLeuAlaLeuIleProGluThr 50
|||||
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273 ACAACATTGACAGTGGTGGAGGGGTTGCACTGTGTGACAGCAGTATG 322
67 sCysLeuAlaAspGlyAlaLeuIleTyrArgLysLeuLeuPheAsnProS 84
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323 CTGCTTGGCGAGCGGGCCCTTATTACCGGAAGCTTCTGTTCATGCCA 372
84 erGlyProTyrGlnLysLysProValHisGluLysLysGluValLeu 99
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373 GCGGTCCCTTACCAAGAAAAAGCCTGTGCATGAAAAAAGAAAGATTGTG 419
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51 ThrThrleuthrrvalgllygllyvalphealaleuvalThrAlaValcy 67  
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67 sCysLeuAlaaspGlyAlaIleuIleTyraTgLySLeuLeuPheasnPro 84  
246 CTGCGTTCGCCAGCGGGCCCTTATTACCGGAAGCTTCTGTCATCCCA 295  
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AC AAV59598;  
XX  
DT 06-JAN-1999 (first entry)  
XX  
DE Human secreted protein gene 88 clone HAAUAV32.  
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XX Human: secreted protein; fusion protein; gene therapy; protein therapy;  
XX diagnosis; tissue; cancer; tumour; neurodegenerative disorder; leukaemia;  
XX developmental abnormality; foetal deficiency; blood; allergy; renal; ds;  
XX immune system; asthma; lymphocytic disease; brain; hepatic; lymphoma;  
XX inflammation; ischaemic shock; Alzheimer's disease; restenosis; AIDS;  
XX cognitive disorder; schizophrenia; prostate; obesity; osteoclast; thymus;  
XX osteoporosis; arthritis; testis; lung; thyroiditis; thyroid; digestion;  
XX endocrine; metabolism; regulation; malabsorption; gastritis; neoplasm.  
OS  
XX Homo sapiens.  
XX  
PN WO9839448-A2.  
XX  
PD 11-SEP-1998.  
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PF 06-MAR-1998; 98WO-US04493.  
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PR 05-SEP-1997; 97US-0057761.  
PR 12-SEP-1997; 97US-0058785.  
XX

(HUMA-) HUMAN GENOME SCI INC.

PI Bednarik DP, Brewer LA, Carter KC, Duan R, Ebner R, Endress GA;  
PI Feng P, Fierle AM, Fischer KL, Florence KA, Greene JM, Hu JS;  
PI Kyaw H, Lafleur DM, Li Y, Moore PA, Ni Y, Olsen HS, Rosen CA;  
PI Ruben SM, Shi Y, Soppet DR, Young PE, Yu GL, Zeng Z;

DR WPI: 1998-506364/43.  
P-PSDB: AAW74818.

PT New isolated human genes and the secreted polypeptide(s) they encode  
PT - useful for diagnosis and treatment of e.g. cancers, neurological  
PT disorders, immune diseases, inflammation or blood disorders

PS Claim 1, Page 320, 721pp; English.

XX This sequence represents a nucleic acid molecule designated Gene 88 from  
CC the human cDNA clone HANAV32 (deposited as clone ATCC 97901 and ATCC  
CC 209047) which encodes a secreted human protein. The gene can be used to  
CC generate fusion proteins by linking to the gene to a human  
CC immunoglobulin Fc portion (e.g. AAV59502) for increasing the stability of  
CC the fused protein as compared to the human protein only.  
CC The invention relates to 186 novel genes and their fragments (nucleic  
CC acid sequences: AAV59511-V59812; amino acid sequences: AAW74731-AW5026)  
CC which are useful for preventing, treating or ameliorating medical  
CC conditions e.g. by protein or gene therapy. Also, pathological conditions  
CC can be diagnosed by determining the amount of the new polypeptides in a  
CC sample or by determining the presence of mutations in the new  
CC polynucleotides. Specific uses are described for each of the 186  
CC polynucleotides, based on which tissues they are most highly expressed in  
CC (see AAV59511 for described uses).

SQ Sequence 504 BP; 143 A; 106 C; 128 G; 127 T; 0 other;

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Quality: 508.00 Length: 99  
Ratio: 5.131 Gaps: 0  
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US-09-801-115-2 x AAV59598

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51 ThrThrLeuThrValGlyGlyValPheAlaLeuValThrAlaValCy 67  
|||||  
281 ACAACATGACAGTGTGTGAGAGGCTGTTGACCTGTGACAGCAGTATG 330  
67 sCysLeuAlaAspGlyAlaLeuIleTyrArgLysLeuLeuLeuLeuLeu 84  
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331 CTGTCTTCGCGACGGGGCTTATTTACCGAAGCTTCTGTTCAATCCCA 380  
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ID AAV59746 standard; DNA: 506 BP.

XX AAV59746;  
AC 19-JAN-1999 (first entry)  
XX Human secreted protein gene 88 clone HANAV32.  
DE Human; secreted protein; fusion protein; gene therapy; protein therapy;  
XX diagnosis; tissue; cancer; neurodegenerative disorder; leukemia;  
XX developmental abnormality; foetal deficiency; blood; allergy; renal; ds;  
XX immune system; asthma; lymphocytic disease; brain; hepatic; lymphoma;  
XX inflammation; ischaemic shock; Alzheimer's disease; restenosis; AIDS;  
XX cognitive disorder; schizophrenia; prostate; obesity; osteoclast; thymus;  
XX osteoporosis; arthritis; testis; lung; thyroiditis; thyroid; digestion;  
XX endocrine; metabolism; regulation; malabsorption; gastritis; neoplasm.  
OS Homo sapiens.  
XX WO9839448-A2.  
XX 11-SEP-1998.  
XX 06-MAR-1998; 98WO-US04493.  
XX 02-OCT-1997; 97US-0061060.  
XX 07-MAR-1997; 97US-0038621.  
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 PR 16-JUL-1997; 97US-0052874.  
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 PR 22-AUG-1997; 97US-0056882.  
 PR 22-AUG-1997; 97US-0056884.  
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 PR 05-SEP-1997; 97US-0057761.  
 PR 12-SEP-1997; 97US-0058785.  
 PR XX  
 PA (HUMA-) HUMAN GENOME SCI INC.  
 XX  
 PI Bednarik DP, Brewer LA, Carter KC, Duan R, Ebner R, Endress GA;  
 PI Feng P, Ferrite AM, Fischer CL, Florence KA, Greene JM, Hu JS;  
 PI Kyaw H, Lafleur DW, Li Y, Moore PA, Ni J, Olsen HS, Rosen CA;  
 PI Ruben SM, Shi Y, Soppet DR, Young PE, Yu GL, Zeng Z;  
 XX  
 DR WPI: 1998-506364/43.  
 DR P-PSDB: AAW74961.  
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 PT New isolated human genes and the secreted polypeptide(s) they encode  
 PT - useful for diagnosis and treatment of e.g. cancers, neurological  
 PT disorders, immune diseases, inflammation or blood disorders  
 XX  
 PS Claim 1; Page 472; 721pp; English.  
 XX  
 CC This sequence represents a nucleic acid molecule designated Gene 88 from  
 CC the human cDNA clone HAAVY2 (deposited as clone ATCC 97897 and ATCC  
 CC 209043) which encodes a secreted human protein. The gene can be used to  
 CC generate fusion proteins by linking to the gene to a human  
 CC immunoglobulin Fc portion (e.g. AAV59502) for increasing the stability of  
 CC the fused protein as compared to the human protein only.

CC The invention relates to 186 novel genes and their fragments (nucleic  
 CC acid sequences: AAV59511-V59812; amino acid sequences AAW74731-W75026)  
 CC which are useful for preventing, treating or ameliorating medical  
 CC conditions e.g. by protein or gene therapy. Also, pathological  
 CC conditions can be diagnosed by determining the amount of the new  
 CC polypeptides in a sample or by determining the presence of mutations in  
 CC the new polynucleotides. Specific uses are described for each of the 186  
 CC polynucleotides, based on which tissues they are most highly expressed in  
 CC (see AAV59511 for described uses).  
 CC XX  
 SQ Sequence 506 BP; 148 A; 103 C; 121 G; 132 T; 2 other:  
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 Quality: 508.00 Length: 99  
 Ratio: 5.131 Gaps: 0  
 Percent Similarity: 100.000 Percent Identity: 100.000  
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 217 CAACACTATTTCATGCTCATCGTATCTGTGTGCTGCTGATCCAAAC 266  
 51 ThrThrLeuThrValGlyGlyValPheAlaLeuValThrAlaValC 67  
 267 ACAACATTGACAGTGTGGAGGGGTGTTGCATCTTGACAGCAGTATG 316  
 67 scYsLeuAlaAspGlyAlaLeuIleTyrArgLysLeuPheAsnProS 84  
 317 CTGTCTGCCGACGGGCCCTTATTACCGAAGCTTCTGTTCAATCCCA 366  
 84 eRgIyProTyrGlnLysLysProValHisGlyLysLysGluValLeu 99  
 367 GCGGCTCTTACCCGAAAGAGCTGTGATGAAAAAGAAAGAGTTTG 413  
 seq\_name: /SISL/gcgdata/geneseq/geneseq-emb1/NA2000.DAT:AA87730  
 seq\_documentation\_block:  
 ID AA87730 standard; cDNA; 515 BP.  
 AC AA87730;  
 XX  
 DT 28-NOV-2000 (first entry)  
 XX  
 DE Human secreted protein encoding cDNA SEQ ID #29.  
 XX  
 KW Human; secreted protein; forensic procedure; gene therapy;  
 KW chromosome mapping; cancer; autoimmune disease; cardiovascular disorder;  
 KW cystic fibrosis; hypothyroidism; immunological disorder; amyloidosis;  
 KW brain disorder; skeletal muscle disorder; eye disorder; obesity;  
 KW mitochondrialcytopathy; diabetes; atherosclerosis; Alzheimer's disease;  
 KW neurodegenerative disorder; graft rejection; dementia; hyperlipidaemia;  
 KW septic shock; impotence; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200037491-A2.  
 XX  
 PD 29-JUN-2000.  
 XX  
 PF 20-DEC-1999; 99MO-IB02058.

```

XX
PR 22-DEC-1998; 9805-0113686.
PR 25-JUN-1999; 9905-0141032.
PA (GEST ) GENSET.
PI Bougueleret L, Dumas J, Duclert A;
XX WPI: 2000-442637/38.
DR P-PSDB: AAB25768.
XX
XX Polynucleotides and polypeptides encoding proteins with signal
PT peptides, useful in diagnostic, forensic, gene therapy and chromosome
PT mapping procedures -
XX
XX Claim 1; Page 169-170; 306pp; English.
XX
XX This sequence represents human cDNA encoding a secreted protein. The
CC invention relates to sequences AA87725-AA87774 which encode human
CC secreted proteins AAB25763-B25812. The proteins include signal peptides.
CC included in the invention are a host cell containing one of the cDNA
CC sequences, and a purified antibody capable of binding to one of the
CC secreted proteins. Also contained in the invention are methods for
CC storing the sequence data on a computer system, and a method for
CC identifying features of the cDNA sequences using a computer programme.
CC The cDNAs are useful for expressing secreted proteins or fragments to
CC obtain antibodies capable of specifically binding to the secreted
CC proteins. The cDNAs may also be useful in diagnostic, forensic, gene
CC therapy and chromosome mapping procedures and may be used to design
CC expression vectors and secretion vectors. The proteins of the invention
CC may be used to treat diseases including cancer, autoimmune diseases,
CC cardiovascular disorders, cystic fibrosis, hypothyroidism, immunological
CC disorders, amyloidosis, brain disorders, skeletal muscle disorders, eye
CC disorders, obesity, mitochondrial cytopathies, diabetes, atherosclerosis,
CC neurodegenerative disorders, graft rejection, Alzheimer's disease,
CC dementia, hyperlipidaemia, septic shock and impotence.
XX
XX Sequence 515 BP; 143 A; 106 C; 135 G; 130 T; 1 other;
XX
XX
XX alignment_scores:
XX Quality: 508.00 Length: 99
XX Ratio: 5.131 Gaps: 0
XX Percent Similarity: 100.000 Percent Identity: 100.000
XX
XX alignment_block:
XX US-09-801-115-2 x AAA87730 ..
XX
XX Align seg 1/1 to: AAA87730 from: 1 to: 515
XX
1 MetAspAsnValGlnProLysIleLysHisArgProPheCysPheSerVal 17
144 ATGATTAACGTCGACGCCGAAATAAACATGCCCTTGCTGCTCAGGT 193
17 llysglyhisvallysmetleuargleuaspilelleasnservaleuValT 34
194 GAAAGGCCACGCTGAAGATGCTGCGGCTGGATATATCACTACCTACGTGTA 243
34 hrThrValPheMetleuIleValSerValIleuAlaIleuProGluThr 50
244 CAACAGATTTCATGCTCATCTATCTGTGGCAGCATGATACAGAAACC 293
51 ThrThrLeuThrValIsglyIglyValPheAlaIleuValThrAlaValcy 67
294 ACAACATTGACAGCTTGTTGGAGGGGTTTGCCTTGTGACAGCAGTATG 343
67 scYsLeuAlaAspGlyAlaLeuIleTyArgLysLeuLeuPheAsnProS 84
344 CTGCTTCCGAGAGGGCCCTTATTATACGGAAGCTTCTGTTCATATCCA 393
84 ergIlyProTyrgInLysLysProValHisgluLysLysGluValleu 99
394 GCGGTCTTACACAGAAAAAGCTGTGCATGAAAAAAGAAAGTTTGG 440

```

```

seq_name: /SIDSL/gc9data/geneseq/geneseqn-emb1/NA2001A.DAT:AAF64012
seq_documentation_block:
ID AAF64012 standard; cDNA; 515 BP.
XX
XX AAF64012;
XX
XX AC AAF64012;
XX
XX DT 05-APR-2001 (first entry)
XX
XX DE cDNA encoding human secreted protein #13.
XX
XX KW Secreted protein; prevention; treatment; diagnosis; disease;
XX infection; ds.
XX
XX OS Homo sapiens.
XX
XX PN WO200100806-A2.
XX
XX PD 04-JAN-2001.
XX
XX PF 21-JUN-2000; 2000WO-1B00951.
XX
XX PR 25-JUN-1999; 9905-0141032.
XX PR 21-DEC-1999; 9905-0469099.
XX
XX (GEST ) GENSET.
XX
XX Dumas Mline Edwards J, Bougueleret L, Jobert S;
XX WPI: 2001-071487/08.
XX
XX DR 49 Secreted proteins and the nucleic acids encoding them, useful in
XX PT gene therapy and for detecting similar sequences in samples -
XX PS Claim 1; Page 225; 307pp; English.
XX
XX CC The present invention relates to 49 Secreted proteins and the cDNAs
XX CC encoding them. The protein and nucleic acids may be used in the
XX CC prevention, treatment and diagnosis of diseases associated with
XX CC inappropriate protein expression.
XX
XX Sequence 515 BP; 143 A; 106 C; 135 G; 130 T; 1 other;
XX
XX
XX alignment_scores:
XX Quality: 508.00 Length: 99
XX Ratio: 5.131 Gaps: 0
XX Percent Similarity: 100.000 Percent Identity: 100.000
XX
XX alignment_block:
XX US-09-801-115-2 x AAF64012 ..
XX
XX Align seg 1/1 to: AAF64012 from: 1 to: 515
XX
1 MetAspAsnValGlnProLysIleLysHisArgProPheCysPheSerVal 17
144 ATGATTAACGTCGACGCCGAAATAAACATGCCCTTGCTGCTCAGGT 193
17 llysglyhisvallysmetleuargleuaspilelleasnservaleuValT 34
194 GAAAGGCCACGCTGAAGATGCTGCGGCTGGATATATCACTACCTACGTGTA 243
34 hrThrValPheMetleuIleValSerValIleuAlaIleuProGluThr 50
244 CAACAGATTTCATGCTCATCTATCTGTGGCAGCATGATACAGAAACC 293
51 ThrThrLeuThrValIsglyIglyValPheAlaIleuValThrAlaValcy 67
294 ACAACATTGACAGCTTGTTGGAGGGGTTTGCCTTGTGACAGCAGTATG 343
67 scYsLeuAlaAspGlyAlaLeuIleTyArgLysLeuLeuPheAsnProS 84

```

344 CTGCTTCCGACGGCCCTTATTACGGAGACTTCTGTCATCCCA 393  
 84 erglypProTyrgInLySlySProValHISgluYslySgluValleu 99  
 394 GCGGTCTTACAGAAAAAGCCTGTGCATGAAAAAAGAGTTTGG 440  
 seq\_name: /SIDS1/gcgdata/geneseq/geneseqn-emb1/NA2000.DAT:AAA38006

seq\_documentation\_block:  
 ID AAA38006 standard; cDNA; 534 BP.

AC AAA38006;  
 DE 22-AUG-2000 (first entry)  
 DE UCK-1 nucleotide sequence.

XX UCK-1; chemotaxis factor; immunocyte; haemopoiesis stimulant; tumour;  
 KM radiotherapy; chemotherapy; human; ss.

OS Homo sapiens.

XX CN1244584-A.

PD 16-FEB-2000.

PF 14-MAY-1999; 99CN-0107284.

PR 14-MAY-1999; 99CN-0107284.

PA (UYBE-) UNIV BEIJING MEDICAL.

PI Ma D, Han W, Zhang Y;

XX WPI; 2000-388170/34.

DR P-PSDB; AAY98142.

PT Chemotactic factor useful for treatment and diagnosis of immunocyte  
 PT disorders - has immunocyte chemotactic stimulating factor

XX Example 4; Fig 1; 31pp; Chinese.

XX This sequence represents an UCK-1 cDNA sequence encoding a chemotaxis  
 CC factor polypeptide. The UCK-1 protein exhibits immunocyte chemotaxis  
 CC activity and a haemopoiesis stimulating effect. The invention relates to  
 CC UCK proteins, their encoding nucleotide sequences and antibodies and  
 CC antagonists against the proteins. The nucleotide and protein sequences  
 CC are useful for the preparation of a composition for the diagnosis and  
 CC treatment of diseases associated with abnormal immunocyte function and  
 CC low haemopoiesis function caused by radiotherapy and chemotherapy used to  
 CC treat tumours and other diseases.

XX Sequence 534 BP; 156 A; 110 C; 134 G; 134 T; 0 other;

alignment\_scores:

Quality: 508.00 Length: 99  
 Ratio: 5.131 Gaps: 0  
 Percent Similarity: 100.000 Percent Identity: 100.000

alignment\_block:  
 US-09-801-115-2 x AAA38006 ..

Align seg 1/1 to: AAA38006 from: 1 to: 534

1 MetspaanValGInProLySlySProValHISgluYslySgluValleu 17  
 152 ATGGATTAACGTCACCGCAAAATAAACATCGCCCTTCTGCTTCAGTGT 201  
 17 llySglYHISValYslySmetLeuArGleuASpIleIleasnSerLeuValT 34  
 202 GAAGGCGACGCGAAGATGCTGCGGCTGGAATATATCAACACACTGGTAA 251

34 hrThrValPheketLeuIleValSerValleuAlaIleuIleProGluThr 50  
 252 CACACGATATTCATGCTCATGTCATGTCGTGGCAGCTATACGAAAC 301  
 51 ThrThrLeuThrValGlyGlyValPheAlaLeuValThrAlaValCy 67  
 302 ACAACATTCACAGTGTGGAGGGGTGTTGGCATTGTGACAGCAGTATG 351  
 67 scYsleuAlaaspGlyAlaIleuIleTyrrArglySleuPheasnPros 84  
 352 CTGTCTTCCGACGGCCCTTATTACCGAGAGCTTCTGTTCAATCCCA 401  
 84 erglypProTyrgInLySlySProValHISgluYslySgluValleu 99  
 402 GCGGTCTTACAGAAAAAGCCTGTGCATGAAAAAAGAGTTTGG 448  
 seq\_name: /SIDS1/gcgdata/geneseq/geneseqn-emb1/NA2001A.DAT:AAH98515

seq\_documentation\_block:  
 ID AAH98515 standard; cDNA; 538 BP.

XX AAH98515;

DT 12-OCT-2001 (first entry)

DE Human EST-derived coding sequence SEQ ID NO: 372.

XX Human; sheep; pig; cow; fruit fly; yeast; hamster; macaque; horse;  
 KM tomato; monkey; dog; sea urchin; expressed sequence tag; EST;  
 KM diagnostics; forensic test; gene mapping; genetic disorder;  
 KM biodiversity; gene therapy; nutrition; ss.

XX Homo sapiens.

XX WO200154477-A2.

XX 02-AUG-2001.

XX 25-JAN-2001; 2001WO-US02687.

XX 25-JAN-2000; 2000US-0491404.

XX 17-JUL-2000; 2000US-0617746.

XX 03-AUG-2000; 2000US-0631451.

XX 13-SEP-2000; 2000US-0663870.

XX (HYSE-) HYSEQ INC.

XX Tang YF, Liu C, Zhou P, Qian XB, Wang Z, Chen R, Asundi V;  
 PI Cao Y, Drmanac RA, Zhang J, Werhman T;

XX WPI; 2001-476164/51.

XX P-PSDB; AAM23856.

XX Isolated polypeptide for treatment of diseases, diagnostics, raising  
 PT antibodies and research use -

XX Claim 1; Page 451; 1275pp; English.

XX The present invention provides the protein and coding sequences of novel  
 CC proteins from a variety of organisms, including human, dog, cat, horse,  
 CC cow, pig, hamster, monkey, macaque, yeast, bacteria, fruit fly, sea  
 CC urchin and tomato. These were derived from expressed sequence tags (ESTs)  
 CC from the organism of interest. They can be used in diagnostics,  
 CC forensics, gene mapping, identification of mutations, to assess  
 CC biodiversity and for nutritional purposes. The present sequence is a cDNA  
 CC of the invention.

XX Sequence 538 BP; 141 A; 142 C; 115 G; 140 T; 0 other;

alignment\_scores:

Quality: 508.00 Length: 99  
 Ratio: 5.131 Gaps: 0



Percent Similarity: 100.000 Percent Identity: 100.000

alignment\_block:

US-09-801-115-2 x AAH98515/rev ..

Align seg 1/1 to reverse of: AAH98515 from: 1 to: 538

```

1 MetAspAsnValGlnProLysIleLysHisArgProPheCysPheSerVa 17
  |||
366 ATGGATTAACGTCGACGCCGAAATGAAACATGCCCTTCCTGCTCACTGT 317
17 LlysGlyHisValLysMetLeuArgLeuAspIleLeaSerLeuValT 34
  |||
316 GAAAGGCCACGTCGAAGATGCTGCGCGTGATATATCAACTCACTGTTAA 267
34 hrThrValPheMetLeuIleValSerValLeuAlaLeuIleProGluThr 50
  |||
266 CAACAGTATTCATGCTCATGCTATCTGTGGCAGCATGACAGCAATG 217
51 ThrThrLeuThrValGlyGlyValPheAlaLeuValThrAlaValGly 67
  |||
216 ACAACATTGACAGTTGGTGGAGGGGTGTGCACTTGACAGCAGTATG 167
67 scLysLeuAlaAspGlyAlaLeuIleTyrArgLysLeuLeuPheAsnPro 84
  |||
166 CTGCTTGGCCGACGGGCCCTTATTACCGAAGCTTCTGTTCAATCCCA 117
84 erGlyProTyrGlnLysLysProValHisGluLysGluValLeu 99
  |||
116 GCGGTCTTACCAAGAAAGCCTGTCATGAAAAAAGAGTTTGG 70

```

seq\_name: /SIDS1/gcgdata/geneseq/geneseqn-emb1/NA2001A.DAT:AAH98548

seq\_documentation\_block:

ID AAH98548 standard; cDNA: 538 BP.

AC AAH98548;

DT 12-OCT-2001 (first entry)

DE Human EST-derived coding sequence SEQ ID NO: 405.

XX Human: sheep; pig; cow; fruit fly; yeast; hamster; macaque; horse;  
 KW tomato; monkey; dog; sea urchin; expressed sequence tag; EST;  
 KW diagnostics; forensic test; gene mapping; genetic disorder;  
 KW biodiversity; gene therapy; nutrition; ss.

XX Homo sapiens.

PN WO200154477-A2.

PD 02-AUG-2001.

PE 25-JAN-2001; 2001WO-US02687.

PR 25-JAN-2000; 2000US-0491404.

PR 17-JUL-2000; 2000US-0617746.

PR 03-AUG-2000; 2000US-0631451.

PR 15-SEP-2000; 2000US-0663870.

XX (HYSE-) HYSEQ INC.

DR WPI: 2001-476164/51.

PI Tang YT, Liu C, Zhou P, Qian XB, Wang Z, Chen R, Asundi V;

PI Cao Y, Drmanac RA, Zhang J, Werhman T;

PT P-PSDB: AAM23889.

PT Isolated polypeptide for treatment of diseases, diagnostics, raising

PS antibodies and research use -

XX Claim 1; Page 467; 1275pp; English.

CC The present invention provides the protein and coding sequences of novel  
 CC proteins from a variety of organisms, including human, dog, cat, horse,  
 CC cow, pig, hamster, monkey, macaque, yeast, bacteria, fruit fly, sea  
 CC urchin and tomato. These were derived from expressed sequence tags (ESTs)  
 CC from the organism of interest. They can be used in diagnostics,  
 CC forensics, gene mapping, identification of mutations, to assess  
 CC biodiversity and for nutritional purposes. The present sequence is a cDNA  
 CC of the invention.  
 XX  
 SQ Sequence 538 BP; 141 A; 142 C; 115 G; 140 T; 0 other;

alignment\_scores:

Quality: 508.00

Ratio: 5.131

Percent Similarity: 100.000

Percent Identity: 100.000

alignment\_block:

US-09-801-115-2 x AAH98548/rev ..

Align seg 1/1 to reverse of: AAH98548 from: 1 to: 538

```

1 MetAspAsnValGlnProLysIleLysHisArgProPheCysPheSerVa 17
  |||
366 ATGGATTAACGTCGACGCCGAAATGAAACATGCCCTTCTGCTTCACTGT 317
17 LlysGlyHisValLysMetLeuArgLeuAspIleLeaSerLeuValT 34
  |||
316 GAAAGGCCACGTCGAAGATGCTGCGCGTGATATATCAACTCACTGTTAA 267
34 hrThrValPheMetLeuIleValSerValLeuAlaLeuIleProGluThr 50
  |||
266 CAACAGTATTCATGCTCATGCTATCTGTGGCAGCATGACAGCAATG 217
51 ThrThrLeuThrValGlyGlyValPheAlaLeuValThrAlaValGly 67
  |||
216 ACAACATTGACAGTTGGTGGAGGGGTGTGCACTTGACAGCAGTATG 167
67 scLysLeuAlaAspGlyAlaLeuIleTyrArgLysLeuLeuPheAsnPro 84
  |||
166 CTGCTTGGCCGACGGGCCCTTATTACCGAAGCTTCTGTTCAATCCCA 117
84 erGlyProTyrGlnLysLysProValHisGluLysGluValLeu 99
  |||
116 GCGGTCTTACCAAGAAAGCCTGTCATGAAAAAAGAGTTTGG 70

```

seq\_name: /SIDS1/gcgdata/geneseq/geneseqn-emb1/NA2001A.DAT:AAH34835

seq\_documentation\_block:

ID AAH34835 standard; cDNA: 558 BP.

AC AAH34835;

DT 03-SEP-2001 (first entry)

DE Human colon cancer antigen encoding cDNA SEQ ID NO:1917.

XX Human: colon cancer; colon cancer antigen; diagnosis; detection;  
 KW colorectal carcinoma; ss.

XX Homo sapiens.

PN WO200122920-A2.

PD 05-APR-2001.

PE 28-SEP-2000; 2000WO-US26524.

PR 29-SEP-1999; 99US-0157137.

PR 03-NOV-1999; 99US-0163280.

XX (HUMA-) HUMAN GENOME SCI INC.

PI Ruben SM, Barash SC, Birse CE, Rosen CA;  
 XX WPI: 2001-235357/24.  
 DR P-PSDB; AAG75430.  
 XX  
 PT Nucleic acids encoding 4277 human colon cancer-associated polypeptides,  
 useful for preventing, diagnosing and/or treating colorectal cancers -  
 XX  
 XX Claim 1; Page 3428; 9803pp; English.  
 PS  
 CC AAH32943 to AAH37195 and AAG73514 to AAG77788 represent human colon  
 CC cancer-associated nucleic acid molecules (N) and proteins (P), where  
 CC the proteins are collectively known as colon cancer antigens. The colon  
 CC cancer antigens have cytostatic activity and can be used in gene  
 CC therapy and vaccine production. N and P may be used in the prevention,  
 CC diagnosis and treatment of diseases associated with inappropriate P  
 CC expression. For example, N and P may be used to treat disorders  
 CC associated with decreased expression by rectifying mutations or deletions  
 CC in a patient's genome that affect the activity of P by expressing  
 CC inactive proteins or to supplement the patient's own production of P.  
 CC Additionally, N may be used to produce the colon cancer-associated PS,  
 CC by inserting the nucleic acids into a host cell and culturing the cell  
 CC to express the proteins. N and P can be used in the prevention, diagnosis  
 CC and treatment of colorectal carcinomas and cancers. AAH37196 to AAH37204  
 CC and AAG77789 represent sequences used in the exemplification of the  
 CC present invention.  
 CC N.B. Pages 666 to 682 and page 7053 of the sequence listing were  
 CC missing at time of publication, meaning no sequences are present for  
 CC SEQ ID NO:1027 to 1052, 7921 and 7922.  
 XX  
 SO Sequence 558 BP; 150 A; 119 C; 145 G; 141 T; 3 other;

alignment\_scores:  
 Quality: 508.00 Length: 99  
 Ratio: 5.131 Gaps: 0  
 Percent Similarity: 100.000 Percent Identity: 100.000

alignment\_block:

US-09-801-115-2 x AAH34835 ..

Align seg 1/1 to: AAH34835 from: 1 to: 558

1 MetSPASNVAlGInProLYsIlleLYSHisArpPhocysPheSerVa 17  
 ||||||||||||||||||||||||||||||||||||||||||||  
 147 ATGGATACCGTGCAGCGGAAATATAACATCGCCCTTGTCTCACTGT 196  
 ||||||||||||||||||||||||||||||||||||||||||||  
 17 LlyGlyHISValLYsMetLeuArGLeuAspIlelleAsnSerLeuVal 34  
 ||||||||||||||||||||||||||||||||||||||||||||  
 197 GAAAGGCGACGTGAAGATGCTGGCGGTGATATATCACTCACTGGTAA 246  
 ||||||||||||||||||||||||||||||||||||||||||||  
 34 hrThrValPheMetLeuIleValSerValLeuAlaLeuIleProGLuThr 50  
 ||||||||||||||||||||||||||||||||||||||||||||  
 247 CAAAGATTCATCATCGTATCTGTGTGGCACGATACCGAAGAAC 296  
 ||||||||||||||||||||||||||||||||||||||||||||  
 51 ThrThrLeuThrValGlyGlyValPheAlaLeuValThrAlaValCy 67  
 ||||||||||||||||||||||||||||||||||||||||||||  
 297 ACAACATTGACACGTTGGTGGAGGGGTGTTGGCACTTGTGACAGATGATG 346  
 ||||||||||||||||||||||||||||||||||||||||||||  
 347 CTGACTTGGCCGAGGGGCCCTTATTATCCGGAAGCTCTGTCAATCCCA 396  
 ||||||||||||||||||||||||||||||||||||||||||||  
 67 sCyLeuAlaAspGlyAlaLeuIleTyrArgLYsLeuLeuPheAsnProS 84  
 ||||||||||||||||||||||||||||||||||||||||||||  
 84 ergLYProTYrGlnLYsProValHISGluLYsGluValLeu 99  
 ||||||||||||||||||||||||||||||||||||||||||||  
 397 GCGGTCTTACACAGAAAAGCCTGTCATGAAAAAGAAAGATTGTTG 443

seq\_name: /SDSL/gcgdata/geneseq/geneseqn-embd/NM2001A.DAT:AA544932

seq\_documentation\_block:

ID AA544932 standard; cDNA: 655 BP.

AC AA544932;

XX  
 DT 18-DEC-2001 (first entry)  
 DE CDNA encoding novel human secretory protein, Seq ID No 13.  
 XX  
 KW Human; secreted protein; arthritis; Crohn's disease; sepsis; shock;  
 KW Ischaemia-reperfusion injury; haematopoiesis; cancer; neuropathy;  
 KW transgenic animal; Alzheimer's disease; Parkinson's disease; burn;  
 KW amyotrophic lateral sclerosis; platelet disorder; thrombocytopenia;  
 KW ulcer; osteoporosis; bone degenerative disorder; periodontal disease;  
 KW gut protection; lung; liver fibrosis; immune deficiency; infection;  
 KW severe combined immunodeficiency; SCID; autoimmune disorder; allergy;  
 KW multiple sclerosis; rheumatoid arthritis; diabetes mellitus; asthma;  
 KW fertility; analgesic; pain; antigen; ss.  
 OS Homo sapiens.  
 XX  
 MO W020016689-A2.  
 XX  
 PD 13-SEP-2001.  
 XX  
 PF 05-MAR-2001; 2001WO-US04942.  
 XX  
 PR 07-MAR-2000; 2000US-0519705.  
 PR 19-MAY-2000; 2000US-0574454.  
 PR 17-JUN-2000; 2000US-0596193.  
 PR 14-JUL-2000; 2000US-0618447.  
 PR 19-SEP-2000; 2000US-0665363.  
 PR 20-OCT-2000; 2000US-0693267.  
 XX  
 PA (HYSE-) HYSEQ INC.  
 XX  
 PI Tang YT, Liu C, Asundi V, Xu C, Wehrman T, Ren F, Ma Y, Zhou P;  
 PI Zhao QA, Yang Y, Drmanac RT, Zhang J, Chen R, Xue AJ, Wang J;  
 XX  
 DR WPI: 2001-589934/66.  
 DR P-PSDB; AAU28032.  
 XX  
 PT Novel polypeptides and nucleic acids obtained from CDNA libraries  
 prepared from various human tissues, for diagnosis and treatment of  
 PT cancer, neurological, inflammatory, and autoimmune disorders -  
 XX  
 PS Claim 1; SEQ ID No 13; 107pp; English.  
 XX  
 CC The invention relates to novel isolated human secreted polypeptides (I)  
 CC and polynucleotides (II). (I) and (II) are useful for treating disease,  
 CC inflammatory conditions such as arthritis, nephritis, Crohn's disease,  
 CC ischaemia-reperfusion injury, shock, sepsis, immune responses, and is  
 CC involved in increasing haematopoiesis, stem cell survival, bone growth  
 CC and remodeling. (II), (II) and modulators of (II) are useful for  
 CC prophylaxis or treatment of one or more cancers. (II) is also useful for  
 CC creating transgenic animals useful for studying the in vivo activities of  
 CC the polypeptide as well as for studying modulators of the polypeptides.  
 CC (I) induces the proliferation of neural cells and regeneration of nerve  
 CC and brain tissue and is useful for the treatment of central and  
 CC peripheral nervous system diseases and neuropathies, such as Alzheimer's,  
 CC Parkinson's disease, Huntington's disease, and amyotrophic lateral  
 CC sclerosis. In addition, (I) is involved in chemotactic or chemokinetic  
 CC activity, regulation of haematopoiesis and is useful for treating myeloid  
 CC or lymphoid cell disorders, platelet disorders such as thrombocytopenia  
 CC and for regeneration of bone, cartilage, tendon, ligament and/or nerve  
 CC tissue growth, and in tissue repair, healing of burns, incisions,  
 CC ulcers, for treating osteoporosis, osteoarthritis, bone degenerative  
 CC disorders, or periodontal disease. Furthermore, (I) is also useful for  
 CC gut protection or regeneration and treatment of lung or liver fibrosis,  
 CC reperfusion injury in various tissues, various immune deficiencies and  
 CC disorders including severe combined immunodeficiency (SCID), bacterial or  
 CC fungal infections, autoimmune disorders e.g. multiple sclerosis,  
 CC rheumatoid arthritis, diabetes mellitus, myasthenia gravis, allergic  
 CC reactions and conditions, such as asthma or other respiratory problems.  
 CC In addition, (I) affects biorhythms or circadian cycles of rhythms,  
 CC fertility, metabolism, catabolism, anabolism, storage or elimination of  
 CC dietary fat, lipid, protein, carbohydrate, vitamins, minerals, provides

CC analgesic effects or other pain reducing effects, immunoglobulin like  
 CC activity and can act as an antigen in a vaccine composition to raise an  
 CC immune response. AAS44920-AAS45295 represent novel human secreted protein  
 CC coding sequences of the invention.

XX Sequence 655 BP; 178 A; 129 C; 181 G; 167 T; 0 other;

# alignment\_scores:

Quality: 508.00 Length: 99  
 Ratio: 5.131 Gaps: 0  
 Percent Similarity: 100.000 Percent Identity: 100.000

# alignment\_block:

US-09-801-115-2 x AAS44932 ..

Align seg 1/1 to: AAS44932 from: 1 to: 655

```

1 MetAspAsnValGlnProLysIleLysHisArgProPheCysPheSerVa 17
|||||
134 ATGGATTAACGTGCGAGCGGAAATATAACATGCGCCCTTCTGCTCAGTGT 183
17 IlyGlyHisValLysMetLeuArgLeuAspIleIleAsnSerLeuValT 34
|||||
184 GAAAGGCCACGCTGAAGATGCTGCGGATATATATCACTCAGTGTAA 233
34 hrtHrValPheMetLeuIleValSerValLeuAlaLeuIleProGluThr 50
|||||
234 CAACAGTATTATGCTCATCTATCTGTGTGGACGATGATCCGAAACCC 283
51 ThrThrLeuThrValGlyGlyValPheAlaLeuValThrAlaValCy 67
|||||
284 ACAACATGACAGTTGGTGGAGGGGTGTTGCTGCTGACAGCAGATATG 333
67 scYsLeuAlaAspLysAlaLeuIleTyrArgLysLeuLeuPheAsnProS 84
|||||
334 CTGCTTTCGCCGAGCGGGCCCTTATTTACCGGAACCTCTGTTCAATCCA 383
84 ergLysProTyrGlnLysLysProValHisGluLysLysGluValLeu 99
|||||
384 GCGGCTCTTACCAGAAAAGCCTGTGCATGAAAAGAAAGATTGTTG 430

```

seq\_name: /SIDSI/9c9data/geneseq/geneseqn-emb1/NA2000.DAT:AAA15919

# seq\_documentation\_block:

ID AAA15919 standard; cDNA; 297 BP.

XX AAA15919;

DT 12-JUN-2000 (first entry)

XX Human protein clone HP10357 coding sequence.

XX Human protein; hydrophobic domain; nutritional source; haematopoiesis;  
 KW cytokine production; cell proliferation; cell differentiation;  
 KW immune deficiency; infectious disease; autoimmune disorder; asthma;  
 KW multiple sclerosis; systemic lupus erythematosus; rheumatoid arthritis;  
 KW allergic reaction; osteoporosis; osteoarthritis; periodontal disease;  
 KW nervous system disorder; Alzheimer's disease; Parkinson's disease;  
 KW Huntington's disease; liver fibrosis; lung fibrosis; reperfusion injury;  
 KW systemic cytokine damage; tissue differentiation; contraceptive; stroke;  
 KW coagulation disorder; myocardial infarction; inflammatory condition;  
 KW septic shock; sepsis; ischaemia; reperfusion injury; arthritis; tumour;  
 KW nephritis; therapy; ss.

XX Homo sapiens.

XX W0200005367-A2.

XX 03-FEB-2000.

XX 22-JUL-1999; 99WO-JP03929.

PR 24-JUL-1998; 98JP-0208820.  
 PR 07-AUG-1998; 98JP-0224105.  
 PR 25-AUG-1998; 98JP-0238116.  
 PR 09-SEP-1998; 98JP-0254736.  
 PR 29-SEP-1998; 98JP-0275505.

XX (SAGA) SAGAMI CHEM RES CENT.  
 PA (PROT-) PROTEGENE INC.

XX Kato S, Kimura T;

XX WPI; 2000-182694/16.

XX P-PsDB; AAY94861.

PT Novel human proteins having hydrophobic domains useful for treating  
 PT osteoporosis, Alzheimer's disease, Parkinson's disease, asthma,  
 PT multiple sclerosis, rheumatoid arthritis, cancer, anaemia, and stroke -

PS Claim 3; Page 217-218; 351pp; English.

CC This sequence encodes a human protein of the invention, which has  
 CC hydrophobic domains. The DNA sequences can be used as a probe or as a  
 CC genetic marker. The protein can also be used as a marker, and to identify  
 CC potential genetic disorders. The DNA and protein can also be used as  
 CC nutritional sources or supplements. The protein exhibits cytokine, cell  
 CC proliferation, cell differentiation activities and induces production of  
 CC other cytokines in certain cell populations. The protein also exhibits  
 CC immune stimulating or immune suppressing activity. It can be used in the  
 CC treatment of various immune deficiencies and disorders, and to treat  
 CC infectious diseases caused by viral, bacterial, fungal or other  
 CC infections. The protein is also used for treating autoimmune disorders  
 CC such as multiple sclerosis, systemic lupus erythematosus, and rheumatoid  
 CC arthritis. It is also useful in the treatment of allergic reactions and  
 CC conditions such as asthma, and in immune suppression after organ  
 CC transplantation. The protein is useful in regulation of haematopoiesis  
 CC and consequently in the treatment of myeloid or lymphoid cell  
 CC deficiencies. It is also used in compositions for tissue growth or  
 CC regeneration. The protein is also used in the treatment of osteoporosis  
 CC or osteoarthritis and in the treatment of periodontal disease and other  
 CC tooth repair processes. The protein is used in the treatment of nervous  
 CC system disorders such as Alzheimer's disease, Parkinson's disease, and  
 CC Huntington's disease. They are useful for protection or regeneration and  
 CC treatment of lung or liver fibrosis, reperfusion injury in various  
 CC tissues, and conditions resulting from systemic cytokine damage. They are  
 CC also used for promoting or inhibiting tissue differentiation. They are  
 CC also used as contraceptives since they exhibit activin or inhibin related  
 CC activities and as a fertility inducing therapeutic. They are used for  
 CC treating various coagulation disorders and in treatment and prevention of  
 CC conditions resulting from coagulation activities e.g. myocardial  
 CC infarction or stroke. They also acts as receptors, receptor ligands or  
 CC inhibitors or agonists of receptor/ligand interactions. They are used to  
 CC treat inflammatory conditions such as septic shock, sepsis, ischaemia  
 CC reperfusion injury, arthritis, and nephritis. They can be used to  
 CC prevent tumours.

XX Sequence 297 BP; 81 A; 68 C; 72 G; 76 T; 0 other;

# alignment\_scores:

Quality: 504.00 Length: 99  
 Ratio: 5.091 Gaps: 0  
 Percent Similarity: 100.000 Percent Identity: 98.990

# alignment\_block:

US-09-801-115-2 x AAA15919 ..

Align seg 1/1 to: AAA15919 from: 1 to: 297

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1 MetAspAsnValGlnProLysIleLysHisArgProPheCysPheSerVa 17
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1 ATGGATTAACGTGCGAGCGGAAATATAACATGCGCCCTTCTGCTCAGTGT 50
17 IlyGlyHisValLysMetLeuArgLeuAspIleIleAsnSerLeuValT 34

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```

|||||
51 GAAAGGCCAGCTGAAGATGCTGCGCTGATATATATCACTACCTGGTAA 100
34 hrrThrValPheMetLeuIleValSerValIleAlaIleuIleProGluThr 50
101 CAACGATATCATGCTCATCTGATCTGTTGGACATGATACCAAGAAC 150
51 ThrThrLeuThrValGlyGlyValPheAlaLeuValThrAlaValCys 67
151 ACAACATTTGACAGTTGGTGGAGGGGTGTTTGCCTTGGACAGCAGATATG 200
67 sCysLeuAlaAspGlyAlaLeuIleTyrArgLysLeuLeuPheAsnProS 84
201 CTGCTTTCGCCAGCGGGCCCTTATTACCGGAGCCTTCTGTCAATCCCA 250
84 erGlyProTyrGlnLysLysProValHisGluLysGluValIleu 99
251 GCGGCTCTTACCAGCAAAAGCCTGTGCATGAAAAAAGAAAGTTTGG 297

seq_name: /SIDSl/gcgdata/geneseq/geneseqn-emb1/NA2000.DAT:AAAI5929
seq_documentation_block:
ID AAI5929 standard; cDNA; 467 BP.
XX
AC AAI5929;
XX
DT 12-JUN-2000 (first entry)
XX
DE Human protein clone HP10357 full length coding sequence.
XX
KW Human protein; hydrophobic domain; nutritional source; haematopoiesis;
KW cytokine production; cell proliferation; cell differentiation;
KW immune deficiency; infectious disease; autoimmune disease; asthma;
KW multiple sclerosis; systemic lupus erythematosus; rheumatoid arthritis;
KW allergic reaction; osteoporosis; osteoarthritis; periodontal disease;
KW nervous system disorder; Alzheimer's disease; Parkinson's disease;
KW Huntington's disease; liver fibrosis; lung fibrosis; reperfusion injury;
KW systemic cytokine damage; tissue differentiation; contraceptive; stroke;
KW coagulation disorder; myocardial infarction; inflammatory condition;
KW septic shock; sepsis; ischaemia; reperfusion injury; arthritis; tumour;
KW nephritis; therapy; sa.
XX
OS Homo sapiens.
XX
PN WO200005367-A2.
XX
PD 03-FEB-2000.
XX
PE 22-JUL-1999; 99MO-JP03929.
XX
PR 24-JUL-1998; 98JP-0208820.
PR 07-AUG-1998; 98JP-0224105.
PR 25-AUG-1998; 98JP-0238116.
PR 09-SEP-1998; 98JP-0254736.
PR 29-SEP-1998; 98JP-0275505.
XX
PA (SAGA) SAGAMI CHEM RES CENT.
PA (PROT-) PROTEGENE INC.
XX
PI Kato S, Kimura T;
XX
DR WPI; 2000-182694/16.
DR P-PSDB; AAY94861.
XX
PT Novel human proteins having hydrophobic domains useful for treating
PT osteoporosis, Alzheimer's disease, Parkinson's disease, asthma,
PT multiple sclerosis, rheumatoid arthritis, cancer, anaemia, and stroke -
XX
PS Claim 4: Page 228; 351pp; English.
XX
CC This sequence encodes a human protein of the invention, which has
CC hydrophobic domains. The DNA sequences can be used as a probe or as a
CC genetic marker. The protein can also be used as a marker, and to identify

```

```

CC potential genetic disorders. The DNA and protein can also be used as
CC nutritional sources or supplements. The protein exhibits cytokine, cell
CC proliferation, cell differentiation activities and induces production of
CC other cytokines in certain cell populations. The protein also exhibits
CC immune stimulating or immune suppressing activity. It can be used in the
CC treatment of various immune deficiencies and disorders, and to treat
CC infectious diseases caused by viral, bacterial, fungal or other
CC infections. The protein is also used for treating autoimmune disorders
CC such as multiple sclerosis, systemic lupus erythematosus, and rheumatoid
CC arthritis. It is also useful in the treatment of allergic reactions and
CC conditions such as asthma, and in immune suppression after organ
CC transplantation. The protein is useful in regulation of haematopoiesis
CC and consequently in the treatment of myeloid or lymphoid cell
CC deficiencies. It is also used in compositions for tissue growth or
CC regeneration. The protein is also used in the treatment of osteoporosis
CC or osteoarthritis and in the treatment of periodontal disease and other
CC tooth repair processes. The protein is used in the treatment of nervous
CC system disorders such as Alzheimer's disease, Parkinson's disease, and
CC Huntington's disease. They are useful for protection or regeneration and
CC treatment of lung or liver fibrosis, reperfusion injury in various
CC tissues, and conditions resulting from systemic cytokine damage. They are
CC also used for promoting or inhibiting tissue differentiation. They are
CC also used as contraceptives since they exhibit activin or inhibin related
CC activities and as a fertility inducing therapeutic. They are used for
CC treating various coagulation disorders and in treatment and prevention of
CC conditions resulting from coagulation activities e.g. myocardial
CC infarction or stroke. They also acts as receptors, receptor ligands or
CC inhibitors or agonists of receptor/ligand interactions. They are used to
CC treat inflammatory conditions such as septic shock, sepsis, ischaemia
CC reperfusion injury, arthritis, and nephritis. They can be used to
CC prevent tumours.
XX
SQ Sequence 467 BP; 118 A; 101 C; 121 G; 127 T; 0 other:

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alignment_scores:
Quality: 504.00      Length: 99
Ratio: 5.091        Gaps: 0
Percent Similarity: 100.000    Percent Identity: 98.990

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alignment\_block:

US-09-801-115-2 x AAI5929 ..

Align seg 1/1 to: AAI5929 from: 1 to: 467

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1 MetAspAsnValGlnProLysIleLysHisArgProPheCysPheSerVal 17
114 ATGATATACGTCAGCGCAAAATATAACATCGCCCTCTGCTCAGTGT 163
17 LysGlyHisValMetLeuArgLeuAspIleIleAsnSerIleValT 34
164 GAAAGGCCAGCTGAAGATGCTGCGCTGATATATCAACTCAGCTGTA 213
34 hrrThrValPheMetLeuIleValSerValIleAlaIleuIleProGluThr 50
214 CAACATATTCATGCTCATCTGATCTGTTGGACATGATACCAAGAAC 263
51 ThrThrLeuThrValGlyGlyValPheAlaLeuValThrAlaValCys 67
264 ACAACATTTGACAGTTGGTGGAGGGGTGTTGCACTTGTACAGCAGTATG 313
67 sCysLeuAlaAspGlyAlaLeuIleTyrArgLysLeuLeuPheAsnProS 84
314 CTGCTTTCGCCAGCGGGCCCTTATTACCGGAGCCTTCTGTCAATCCCA 363
84 erGlyProTyrGlnLysLysProValHisGluLysGluValIleu 99
364 GCGGCTCTTACCAGCAAAAGCCTGTGCATGAAAAAAGAAAGTTTGG 410

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seq\_name: /SIDSl/gcgdata/geneseq/geneseqn-emb1/NA1999.DAT:AAX97826

seq\_documentation\_block:

ID AAX97826 standard; cDNA; 500 BP.

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XX  AAX97826;
AC
XX  23-SEP-1999 (first entry)
XX
XX  Human secreted protein encoding CDNA #14.
DE
XX  Secreted protein; human; cytosolic; thrombotic; osteopathic; forensic;
KW  diagnostic; gene therapy; chromosome mapping; secretion vector; ss.
XX
XX  Homo sapiens.
OS
XX  MO9925825-A2.
XX
XX  27-MAY-1999.
XX
XX  13-NOV-1998; 98MO-IB01862.
XX
XX  04-SEP-1998; 98US-0099273.
XX  13-NOV-1997; 97US-0066677.
XX  17-DEC-1997; 97US-0069957.
XX  09-FEB-1998; 98US-0074121.
XX  13-APR-1998; 98US-0081563.
XX  10-AUG-1998; 98US-0096116.
XX
XX  (GEST ) GENSET.
XX
XX  Bougueleret L, Duclert A, Dumas Milne Edwards J;
PI  WPI: 1999-347472/29.
XX  P-PSDB; AAY36142.
XX
XX  Extended cDNAs encoding secreted proteins
XX
XX  Example 28; Page 173-174; 307pp; English.
XX
XX  AAX97813-X97906 represent extended CDNA's which encode novel human
CC  secreted proteins (see AAY36129-Y36222) and which have cytosolic,
CC  thrombotic and osteopathic activity. The extended cDNAs can be used to
CC  express secreted proteins or parts of them or to obtain antibodies
CC  capable of binding to the secreted proteins. They may also be used in
CC  diagnostic, forensic, gene therapy and chromosome mapping procedures.
CC  Uses also include design of expression vectors and secretion vectors.
XX
XX  Sequence 500 BP; 135 A; 102 C; 125 G; 129 T; 9 other:
XX
XX
XX  alignment_scores:
XX      Quality: 489.00      Length: 100
XX      Ratio: 4.990      Gaps: 1
XX  Percent Similarity: 98.000      Percent Identity: 98.000
XX
XX  alignment_block:
XX  US-09-801-115-2 x AAX97826 ..
XX
XX  Align seg 1/1 to: AAX97826 from: 1 to: 500
XX
1  MetAspAsnValGlnProLysIleLysHisArgProPheCysPheSerVa 17
112  ATGGTAAACGTGCGAGCCGAAATAAACATCGCCCTTCTGCTCAGTGT 181
17  LlysGlyHisVal. LysMetLeuArgLeuAspIleIleAsnSerLeuVal 33
182  GAAAGGCCAGGTGAGATGCTGGCGGTGATATATCACTCACTGCTGTA 231
34  ThrThrValPheMetLeuIleValSerValLeuAlaLeuIleProGluTh 50
232  ACAACAGATATCATGCTCATGCTATCTGTGTGGCACTGATACAGAAAC 281
50  rThrThrLeuThrValGlyGlyGlyValPheAlaLeuValThrAlaValC 67
282  CACAACATGTACAGTGTGTGGAGGGGTGTTGTCACCTGTGTACACAGTA 331

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```

67  yScysLeuAlaAspGlyAlaLeuIleTyrArgLysLeuPheAsnPro 83
112  GCTGTCTTGGCGAGCGGCGCTTATTACCGAAGCTTCTGTCAATGCC 381
84  SerGlyProGlyGlnLysLysProValHisGlnLysLysGluValLeu 99
382  AGCGTCTTACCGAAGAAAGCCGTGTCATGAAAAAAGAAAGAGTTTGG 429
seq_name: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2000.DAT:AAA38007
seq_documentation_block:
ID  AAA38007 standard; CDNA; 459 BP.
XX
XX  AAA38007;
XX
XX  22-AUG-2000 (first entry)
XX
XX  UCK-2 nucleotide sequence.
XX
XX  UCK-2; chemotaxis factor; immunocyte; haemopoiesis stimulant; tumour;
KW  radiotherapy; chemotherapy; human; ss.
XX
XX  Homo sapiens.
XX
XX  CN1244584-A.
XX
XX  16-FEB-2000.
XX
XX  14-MAY-1999; 99CN-0107284.
XX
XX  14-MAY-1999; 99CN-0107284.
XX
XX  (UYBE-) UNIV BEIJING MEDICAL.
XX
XX  Ma D, Han W, Zhang Y;
XX
XX  WPI: 2000-388170/34.
XX  P-PSDB; AAY98143.
XX
XX  Chemotactic factor useful for treatment and diagnosis of immunocyte
PT  disorders - has immunocyte chemotactic stimulating factor
XX
XX  Example 4; Fig 2; 31pp; Chinese.
XX
XX  This sequence represents an UCK-2 cDNA sequence encoding a chemotaxis
CC  factor polypeptide. The UCK-2 protein exhibits immunocyte chemotaxis
CC  activity and a haemopoiesis stimulating effect. The invention relates to
CC  UCK proteins, their encoding nucleotide sequences and antibodies and
CC  antagonists against the proteins. The nucleotide and protein sequences
CC  are useful for the preparation of a composition for the diagnosis and
CC  treatment of diseases associated with abnormal immunocyte function and
CC  low haemopoiesis function caused by radiotherapy and chemotherapy used to
XX  treat tumours and other diseases.
XX
XX  Sequence 459 BP; 123 A; 99 C; 96 G; 141 T; 0 other:
XX
XX
XX  alignment_scores:
XX      Quality: 471.50      Length: 152
XX      Ratio: 4.763      Gaps: 1
XX  Percent Similarity: 65.132      Percent Identity: 65.132
XX
XX  alignment_block:
XX  US-09-801-115-2 x AAA38007 ..
XX
XX  Align seg 1/1 to: AAA38007 from: 1 to: 459
XX
1  MetAspAsnValGlnProLysIleLysHisArgProPheCysPheSerVa 17
112  ATGGTAAACGTGCGAGCCGAAATAAACATCGCCCTTCTGCTCAGTGT 50
17  LlysGlyHisValLysMetLeuArg..... 25

```

```

51 GAAAGCCACGTGAAGATGCTGGCGGTGGACACTAATCTGTGACATCTATGA 100
25 ..... 25
101 CCTTTTATCATCGACAAAGCCCTGACCATATATTTGTAATCACTGA 150
25 ..... 25
151 TTGAAGTCAACCGTTATCTTATTTTCACTACTTATATATGACTGACACT 200
26 ..... LeuAspIleIleAsnS 31
201 TGATGATTAATGAAGTGTATTGTCCTTGCTGATATATATCAACT 250
31 erLeuValThrThrValPheMetLeuIleValSerValIleuAlaLeuIle 47
251 CACGGGTACACAGATATTCATGCTCATCTGTAICTGTGTTGGCAGCTATA 300
48 ProGluThrThrThrLeuThrValIleGlyIleValPheAlaLeuValTh 64
301 CCAGAAACCAACACATTGACAGTTGGTGGAGGGGTGTTGCACCTGTGAC 350
64 rAlaValCysCysLeuAlaAspGlyAlaLeuIleTyrArgLysLeuLeuP 81
351 AGCAGTATGCTGCTCTGCCGAGGGGCTTATTACCGGAAGCTCTGT 400
81 heAsnProSerGlyProTyrGlnLysLysProValHisGluLysLysGlu 97
401 TCATCCCAAGCGGTCTTACACGAAAGCCCTGTGCATGAAAGAAAAAGAA 450
98 ValLeu 99
451 GTTTTG 456

seq_name: /SDSL/gcgdata/geneseq/geneseqn-emb1/NA2000.DAT:AA256747
seq_documentation_block:
ID AA256747 standard; cDNA; 637 BP.
XX
AC AA256747;
XX
DT 23-MAR-2000 (first entry)
XX
DE Human transmembrane protein HTMPN-50 encoding cDNA.
XX
KW Human: transmembrane protein; HTMPN; diagnosis; immunospecific;
KW antiproliferative; neuroprotective; immune disorder;
KW reproductive disorder; smooth muscle disorder; neurological disorder;
KW gastrointestinal disorder; developmental disorder;
KW cell proliferative disorder; ss.
XX
OS Homo sapiens.
XX
PN M09961471-A2.
XX
PD 02-DEC-1999.
XX
PF 28-MAY-1999; 99WO-US11904.
XX
PR 29-MAY-1998; 98US-0087260.
PR 02-JUL-1998; 98US-0091674.
PR 02-OCT-1998; 98US-0102954.
PR 24-NOV-1998; 98US-0109869.
XX
PA (INCY-) INCYTE PHARM INC.
XX
PI Tang YF, Lai P, Hillman JL, Yue H, Guegler KU, Corley NC;
PI Bandman O, Patterson C, Gorgone GA, Kaser MR, Baughn MR;
PI Au-Young J;
XX
DR WPI: 2000-072605/06.
DR P-PSDB: AAY57926.
XX

```

Proteins, polynucleotides, vectors, host cells and antibodies used to diagnose, treat or prevent immune, reproductive, smooth muscle, neurological, gastrointestinal, developmental and cell proliferative disorders -

Claim 9; Page 210; 229pp; English.

AA25698 to AA256776 encode AAY57877 to AAY57955 which represent human transmembrane proteins designated HTMPN-1 to HTMPN-79, respectively. The transmembrane protein have immunospecific, antiproliferative and neuroprotective activities. The human transmembrane proteins, polynucleotides encoding them and other compositions and methods from the present invention, can be used for the diagnosis, treatment or prevention of immune, reproductive, smooth muscle, neurological, gastrointestinal, developmental and cell proliferative disorders. The HTMPN's can be used to treat or prevent disorders associated with a decreased expression or activity of HTMPN.

Sequence 637 BP; 169 A; 134 C; 143 G; 191 T; 0 other;

alignment\_scores:

Quality:	471.50	Length:	152
Ratio:	4.763	Gaps:	1
Percent Similarity:	65.132	Percent Identity:	65.132

alignment\_block:

US-09-801-115-2 x AA256747 ..

Align seg 1/1 to: AA256747 from: 1 to: 637

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1 MetAspAsnValGlnProLysIleLysHisArgProPheCysPheSerVal 17
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111 ATGGATATACGTGACGCGGAAATTAACATCCGCCCTTCTGCTTCAAGTGT 160
17 LysGlyHisValLysMetLeuArg..... 25
161 GAAAGCCACGATGAGATGCTGCGGCTGGCACTAATGATGACATCTATGA 210
25 ..... 25
211 CCTTTTATCATCGCACAAAGCCCTGAAACATATATGTTATCACTGGA 260
25 ..... 25
261 TTGAAGTCAACCGTTATCTTATTTTCACTTATATATGACTGACACT 310
26 ..... LeuAspIleIleAsnS 31
311 TGATGATTAATGAAGTGTATTGTCCTTGCTGATATATCAACT 360
31 erLeuValThrThrValPheMetLeuIleValSerValIleuAlaLeuIle 47
361 CACTGTACACACAGATATCATGCTCATCTGTAICTGTGTTGGCAGCTATA 410
48 ProGluThrThrThrLeuThrValIleGlyIleValPheAlaLeuValTh 64
411 CCAGAAACCAACACATTGACAGTTGGTGGAGGGGTGTTGCACTGTGTAC 460
64 rAlaValCysCysLeuAlaAspGlyAlaLeuIleTyrArgLysLeuLeuP 81
461 AGCAGTATGCTGCTTCCGAGGGGCTTATTACCGGAAGCTCTGTGT 510
81 heAsnProSerGlyProTyrGlnLysLysProValHisGluLysLysGlu 97
511 TCATCCCAAGCGGTCTTACACGAAAGCCCTGTGCATGAAAGAAAAAGAA 560
98 ValLeu 99
561 GTTTTG 566

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OM of: US-09-801-115-2 to: GenEmbl: \* out\_format : pfs  
Date: Jul 19, 2002 7:57 PM

About: Results were produced by the Gencore software, version 4.5,  
Copyright (c) 1993-2000 Compugen Ltd.

## Command line parameters:

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-Q=/gen2.1/USPTO.spool/US09801115/unal.19072002.182249.6115/app-query.fasta.1.156  
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-MINMATCH=0.100 -LOOPEXT=0.000 -LOOPEXT=0.000 -OGAPOP=4.500  
-OGAPEXT=0.050 -XGAPOP=10.000 -XGAPEXT=0.500 -FGAPOP=6.000  
-RGAPEXT=7.000 -YGAPOP=10.000 -YGAPEXT=0.500 -DELTOP=6.000  
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-LIST=45 -DOCALLIGN=200 -THR\_SCORE=pcr -THR\_MAX=100 -THR\_MIN=0  
-ALIGN=15 -MODE=LOCAL -OUTFMT=pfs -NORM=ext -HEAPSIZE=500  
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## Search information block:

Query: US-09-801-115-2

Query length: 99

Database: GenEmbl: \*

Database length: 1873333701

Search time (sec): 1842.490000

## Score list:

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gb_pr:AF096895	+	508.00	1154.01	530	AF096895 Homo sapiens chemokine
gb_pr:AF057306	+	471.50	1068.13	655	AF057306 Homo sapiens transmem
gb_pat:AX061665	+	471.50	1067.93	669	AX061665 Sequence 70 from Paten
gb_pr:BC004380	+	471.50	1067.67	688	BC004380 Homo sapiens clone MG
gb_pr:AF135380	+	471.50	1067.65	689	AF135380 Homo sapiens chemokine
gb_sts:G30204	+	366.00	828.43	485	G30204 human STS SHGC-36487, se
gb_pr:AF145216	+	339.50	765.63	593	AF145216 Homo sapiens chemokine
gb_pr:AF135381	+	331.00	749.02	434	AF135381 Homo sapiens chemokine
gb_pat:AX079435	+	318.50	719.05	495	AX079435 Sequence 179 from Pat
gb_ro:AF253064	+	275.00	618.55	523	AF253064 Rattus norvegicus chem
gb_pat:AX330610	+	245.00	558.27	207	AX330610 Sequence 1119 from Pat
gb_pat:AX330787	+	245.00	558.27	207	AX330787 Sequence 1296 from Pat
gb_pat:AX331008	+	245.00	558.27	207	AX331008 Sequence 1517 from Pat
gb_ro:AF253065	+	238.50	532.16	682	AF253065 Rattus norvegicus chem
gb_sts:AY047360	+	227.50	508.59	568	AY047360 Mus musculus chemokine
gb_htg:AC018589	+	215.00	427.51	151620	AC018589 Homo sapiens clone
gb_pr:AC010542	+	215.00	425.47	188460	AC010542 Homo sapiens chrom
gb_htg:AC018557	+	215.00	425.40	189821	AC018557 Homo sapiens chrom
gb_pr:AC010289	+	142.00	263.88	97083	AC010289 Homo sapiens chrom
gb_ro:AY046597	+	139.50	307.00	527	AY046597 Mus musculus chemokine
gb_pat:AX252052	+	108.00	211.38	6283	AX252052 Sequence 313 from Pat
gb_pat:AX344430	+	108.00	211.38	6283	AX344430 Sequence 277 from Pat
gb_pat:AX348835	+	108.00	211.38	6283	AX348835 Sequence 293 from Pat
gb_pat:AX252053	+	102.00	197.58	6283	AX252053 Sequence 314 from Pat
gb_pat:AX344431	+	102.00	197.58	6283	AX344431 Sequence 278 from Pat
gb_pat:AX348836	+	102.00	197.58	6283	AX348836 Sequence 294 from Pat
gb_pr:AC000090	+	86.50	146.87	45416	AC000090 Homo sapiens Chromo
gb_pr:AF278577	+	86.50	182.52	700	AF278577 Homo sapiens chemokine
gb_da:AE004148	+	85.50	152.84	13007	AE004148 Vibrio cholerae chrc
gb_v1:AF105742	+	83.50	174.46	0.2355	AF105742 HIV-1 isolate A-RIT-07
gb_v1:AF105741	+	83.50	174.46	0.2355	AF105741 HIV-1 isolate A-RIT-40
gb_pat:AR166758	+	83.00	137.06	37948	AR166758 Sequence 11 from Pat
gb_ro:AF401530	+	82.50	176.32	508	AF401530 Mus musculus chemokine
gb_v1:AF094041	+	81.00	170.90	0.3716	AF094041 HIV-1 isolate 313-9-3-
gb_pr:AL551368	+	79.50	126.06	151.18	AL551368 Human DNA sequence
gb_htg:AC023268	+	79.50	116.49	144457	AC023268 Homo sapiens chrom
gb_htg:AC016329	+	79.50	116.11	150430	AC016329 Homo sapiens clone
gb_htg:AC016329	+	79.50	116.11	150430	AC016329 Homo sapiens clone
gb_htg:AL555380	+	79.50	109.17	315681	AL555380 Homo sapiens chrom

gb_ba:AP001918	+	78.50	117.72	340.85	99159	AP001918 F plasmid genomic
gb_ba:AE006654	+	77.50	136.71	33.94	11376	AE006654 Sulfolobus solif
gb_v1:AF105752	-	77.00	159.56	1.59	789	AF105752 HIV-1 isolate A-RIT
gb_in:AF025452	+	77.00	122.23	191.10	42398	AF025452 Caenorhabditis el
gb_htg:AC101650	-	77.00	117.49	351.21	70358	AC101650 Mus musculus clon

seq\_name: gb\_pat:AX061624

## seq\_documentation\_block:

LOCUS	AX061624	515 bp	DNA	linear	PAT 24-JAN-2001
DEFINITION	Sequence 29 from Patent WO0100806.				
ACCESSION	AX061624				
VERSION	AX061624.1 GI:12406709				
KEYWORDS					
SOURCE	human.				
ORGANISM	Homo sapiens				

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
dunas mine Edwards, J.B., Bougueret, L., and Jobert, S.  
1 (bases 1 to 515)  
Complementary dna's encoding proteins with signal peptides  
Patent: WO 0100806-A 29 04-JAN-2001;  
GENSET (FR)

## FEATURES

Location/Qualifiers

source 1..515  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
144..443  
/note="unnamed protein product"

## CDS

sig\_peptide 144..287  
polyA\_signal 457..462  
polyA\_site 500..515  
BASE COUNT 143 a 106 c 135 g 130 t 1 others  
ORIGIN

## alignment\_scores:

Quality:	508.00	Length:	99
Ratio:	5.131	Gaps:	0
Percent Similarity:	100.000	Percent Identity:	100.000

## alignment\_block:

US-09-801-115-2 x AX061624

Align seg 1/1 to: AX061624 from: 1 to: 515

1 MetaspasvAlaGlnProlysilElyshAtrProPhocysPheSerVa 17  
|||||  
144 ATGATACGTCGACGCGAAATTAACATCGCCCTTGCTGCTGCTGT 193  
17 LysGlyHsValysMetLeuArgLeuAspIleIleAsnSerLeuValT 34  
|||||  
194 GAAAGCCACGTCGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCT 243  
34 hrhValPheMetLeuIleValSerValLeuAlaLeuIleProGlyItr 50  
|||||  
244 CAACAGATTCATGATGATGATGATGATGATGATGATGATGATGATG 293  
51 ThrThrLeuThrValGlyGlyValAlaPheAlaLeuValThrAlaValCy 67  
|||||  
294 ACAACATGACATGCTGCTGAGGAGGCTTTGCACTGTGACAGCATATG 343  
67 sCysLeuAlaAspGlyAlaLeuIleArgArgLeuLeuPheAsnProS 84  
|||||  
344 CTGTCTTGGCGAGGCGGCTTATTTACCGAAGCTTCTGTTCAATCCCA 393  
84 eroltyProtyrGlnlyLysProvalHnIslulysLysAluValLeu 99

394 GCGGCTTACAGAAAAGCCTGTCATGAAAGAAAGAGTTTGG 440

seq\_name: gb\_pr:AF096895

seq\_documentation\_block:

LOCUS AF096895 530 bp mRNA linear PRI 18-JUL-2001  
DEFINITION Homo sapiens chemokine-like factor 1 (CKLF1) mRNA, complete cds.  
ACCESSION AF096895  
VERSION AF096895.2 GI:9989691  
KEYWORDS FLI-CDNA.  
SOURCE human.  
ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 530)  
AUTHORS Han, W., Lou, Y., Tang, J., Zhang, Y., Chen, Y., Li, Y., Gu, W., Huang, J.,  
Gut, L., Tang, Y., Li, F., Song, Q., Di, C., Wang, L., Shi, Q., Sun, R.,  
Xia, D., Rui, M., Tang, J., and Ma, D.  
Molecular cloning and characterization of chemokine-like factor 1  
(CKLF1), a novel human cytokine with unique structure and potential  
chemotactic activity  
Biochem J. 357 (Pt 1), 127-135 (2001)

JOURNAL MEDLINE  
21308461  
PUBMED 11415443

REFERENCE 2 (bases 1 to 530)  
AUTHORS Han, W. L., Li, Y., Zhang, Y. M., Di, C. H., Song, Q. S. and Ma, D. L.  
TITLE Direct Submission  
JOURNAL Submitted (03-OCT-1998) Immunology, Beijing Medical University, 38  
Xue Yuan Rd., Beijing 100083, China  
3 (bases 1 to 530)

REFERENCE 3 (bases 1 to 530)  
AUTHORS Han, W. L.  
TITLE Direct Submission  
JOURNAL Submitted (07-SEP-2000) Immunology, Peking University Health  
Science Center, Xueyuan Road 38, Beijing 100083, China  
Sequence update by submitter  
On Sep 7, 2000 this sequence version replaced gi:6288733.  
REMARK COMMENT

FEATURES  
source  
1..530  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/cell\_line="U937"  
/note="exposed to phytohemagglutinin (PHA)"

gene 1..530  
/gene="CKLF1"  
/note="U937"  
/note="exposed to phytohemagglutinin (PHA)"

CDS 148..447  
/gene="CKLF1"  
/note="increased expression in PHA stimulated cells;  
expression inhibited by IL-10"

BASE COUNT 156 a 108 c 137 g 129 t  
ORIGIN  
ALHPTTITVGGVAFALVTAVCCADGALIRKLLENPDSGPYOKKPYHEKREVL"

alignment\_scores:  
Quality: 508.00 Length: 99  
Ratio: 5.131 Gaps: 0  
Percent Similarity: 100.000 Percent Identity: 100.000

alignment\_block:  
US-09-801-115-2 x AF096895 ..

Align seg 1/1 to: AF096895 from: 1 to: 530

1 MetaspasnvalglpProlysllelyshisArpProphecysPheSerVa 17  
|||||  
148 ATGGATTAACGTCAGCCGAAATATAACATCGCCCTTCTGCTTCACTGT 197

seq\_name: gb\_pr:AF057306

seq\_documentation\_block:

LOCUS AF057306 655 bp mRNA linear PRI 31-DEC-1999  
DEFINITION Homo sapiens transmembrane proteolipid (C32) mRNA, complete cds.  
ACCESSION AF057306  
VERSION AF057306.1 GI:6648618  
KEYWORDS

SOURCE human.  
ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 655)  
AUTHORS Zhang, J. S., Nelson, M., Wang, L. and Smith D. I.  
TITLE Direct Submission  
JOURNAL Submitted (03-APR-1998) Pathology and Lab. Medicine, Mayo Clinic  
and Foundation, Rochester, MN 55905, USA

FEATURES  
source  
1..655  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/cell\_line="AsPC-1"  
/tissue\_type="pancreas"  
/note="adenocarcinoma"

gene 1..655  
/gene="C32"  
/note="down regulated upon cell differentiation induced by  
sodium butyrate"

CDS 132..590  
/gene="C32"  
/note="down regulated upon cell differentiation induced by  
sodium butyrate"  
/product="transmembrane proteolipid"  
/codon\_start=1  
/product="transmembrane proteolipid"  
/protein\_id="AA021255.1"

BASE COUNT 171 a 137 c 153 g 194 t  
ORIGIN  
TTTTLVGGVAFALVTAVCCADGALIRKLLENPDSGPYOKKPYHEKREVL"

alignment\_scores:  
Quality: 471.50 Length: 152  
Ratio: 4.763 Gaps: 1  
Percent Similarity: 65.132 Percent Identity: 65.132

alignment\_block:  
US-09-801-115-2 x AF057306 ..

Align seg 1/1 to: AF057306 from: 1 to: 655

1 MetaspasnvalglpProlysllelyshisArpProphecysPheSerVa 17



```

|||||
132 ATGATTAACGTACAGCCGAAATATAACATGCCCCCTTCTGCTCAGTGT 181
17 11ysg1yhi5val1ysmetleuarg..... 25
182 GAAAGGCCACGTGAGATGCTGCGCTGGCACTACTGTCATCTATGA 231
25 ..... 25
232 CCTTTTATCATCGACAGCCCTGTAACATATTTGTTATCACTGGA 281
25 ..... 25
282 TTGAAGTACACCGTATCTATTTTCACTTTATATGACTACAGCT 331
26 ..... 31
332 TGATGATTAATGAGTGTATTTTGGCTTGTGATATTAATCACT 381
31 erleuval1thrthrval1pmetleu1levalserval1leu1leu1le 47
|||||
382 CACTGTGTAACACAGTATTCATCTCATCTGTCGTGTGTGGCACTGATA 431
48 Proglut1hrthr1leu1thrval1gly1gly1val1phea1leu1val1th 64
|||||
432 CCAGAAACACACATGATGACAGTTGTGGAGGGGTGTGCACCTGTGAC 481
64 r1alaval1cys1leu1alasp1gly1alaleu1le1tyr1arg1lys1leu1up 81
|||||
482 AGCAGTATGCTGTCTTGGCGAGGGGCCCTTATTTACCGAAGCTTCTGT 531
81 heasnProserGlyProTyrGlnLysLysProValHisGlnLysLysGlu 97
|||||
532 TCAATCCCAAGCGGTCTTACCAAGAAAAGCCTGTGATGAAAAAAGAA 581
98 Val1eu 99
|||||
582 GTTTTG 587

seq_name: gb_pat:AX061665

seq_documentation_block:
LOCUS AX061665 669 bp DNA linear PAT 24-JAN-2001
DEFINITION Sequence 70 from Patent WO0100806.
ACCESSION AX061665
VERSION AX061665.1 GI:12406789
KEYWORDS
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 669)
AUTHORS dumas mlne Edwards,J.B., Bougueleret,L. and Jobert,L.S.
TITLE Complementary dna's encoding proteins with signal peptides
JOURNAL Patent: WO 0100806-A 70 04-JAN-2001;
GENSET (FR)
FEATURES
source location/Qualifiers
CDS
1..669
/organism="Homo sapiens"
/db_xref="taxon:9606"
140..598
/note="unnamed protein product"
/codon_start=1
/protein_id="CAC25025.1"
/db_xref="GI:12406790"
/translation="MDNQPKIKHRPFCFSYGVHMKMLRLALVTVMFTFIQAPEP
YVIVGFETVILFLLVLRDLRMKMLFPLDILNSLVTVFMILVSVLALIP
TTTLVGGGVFALVAVCLADGALIRKLFPNSGPYQKRVHKKVEL"
140..442
/note="Von Hejne matrix score 4.10 seq VMLIVSVLALIP/ET"
polya_signal 630..635
polya_site 655..669
BASE COUNT 178 a 139 c 158 g 194 t

```

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ORIGIN
alignment_scores:
Quality: 471.50 Length: 152
Ratio: 4.763 Gaps: 1
Percent Similarity: 65.132 Percent Identity: 65.132

alignment_block:
us-09-801-115-2 x AX061665 ..

Align seg 1/1 to: AX061665 from: 1 to: 669

1 Metaspsnval1glnProLys1leLysHisArgProPhcysPbeserVa 17
|||||
140 ATGATTAACGTGACGCCGAAATATAACATGCCCCCTTCTGCTCAGTGT 189
17 11ysg1yhi5val1ysmetleuarg..... 25
|||||
190 GAAAGGCCACGTGAGATGCTGCGCTGGCACTACTGTCATCTATGA 239
25 ..... 25
240 CCTTTTATCATCGACAGCCCTGTAACATATTTGTTATCACTGGA 289
25 ..... 25
290 TTGAAGTACACCGTATCTATTTTCACTTTTATATGACTACAGCT 339
26 ..... 31
340 TGATGATTAATGAGTGTATTTTGGCTTGTGATATTAATCACT 389
31 erleuval1thrthrval1pmetleu1levalserval1leu1leu1le 47
|||||
390 CACTGTGTAACACAGTATTCATCTCATCTGTCGTGTGTGGCACTGATA 439
48 Proglut1hrthr1leu1thrval1gly1gly1val1phea1leu1val1th 64
|||||
440 CCAGAAACACACATGATGACAGTTGTGGAGGGGTGTGCACCTGTGAC 489
64 r1alaval1cys1leu1alasp1gly1alaleu1le1tyr1arg1lys1leu1up 81
|||||
490 AGCAGTATGCTGTCTTGGCGAGGGGCCCTTATTTACCGAAGCTTCTGT 539
81 heasnProserGlyProTyrGlnLysLysProValHisGlnLysLysGlu 97
|||||
540 TCAATCCCAAGCGGTCTTACCAAGAAAAGCCTGTGATGAAAAAAGAA 589
98 Val1eu 99
|||||
590 GTTTTG 595

seq_name: gb_pr:BC004380

seq_documentation_block:
LOCUS BC004380 688 bp mRNA linear PRI 12-JUL-2001
DEFINITION Homo sapiens, clone MGC:10658 IMAGE:3639550, mRNA, complete cds.
ACCESSION BC004380
VERSION BC004380.1 GI:13325133
KEYWORDS MGC.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 688)
AUTHORS Strausberg,R.
TITLE Direct Submission
JOURNAL Submitted (12-MAR-2001) National Institutes of Health, Mammalian
Gene Collection (MGC), Cancer Genomics Office, National Cancer
Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
USA
REMARK NIH-MGC Project URL: http://mgc.nci.nih.gov

```

## COMMENT

Contact: MGC help desk  
Email: cgaabs-remail.nih.gov  
Tissue Procurement: ATCC  
CDNA Library Preparation: Rubin Laboratory  
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LINL)  
DNA Sequencing by: Genome Sequence Centre,  
BC Cancer Agency, Vancouver, BC, Canada  
info@gscc.bc.ca

Steven Jones, Jennifer Asano, Ian Boedet, Yaron Butterfield,  
Susanna Chan, Readman Chiu, Chris Fjell, Erin Garland, Ran Guin,  
Leticia Hsiao, Martin Krzywinski, Reta Kutsche, Oliver Lee, Soo  
Sen Lee, Victor Ling, Carile Mathewson, Candice McLeavy, Steven  
Ness, Pawan Pandoh, Anna-Lisa Prabhu, Parvaneh Saeedi, Jacqueline  
Schein, Duane Smallus, Michael Smith, Lorraine Spence, Jeff Stott,  
Michael Thorne, Miranda Tsai, Natasja van den Bosch, Jill Vardy,  
George Yang, Scott Zuyderduyn, Marco Marra.

Clone distribution: MGC clone distribution information can be found  
through the I.M.A.G.E. Consortium/LINL at: <http://image.linl.gov>  
Series: IRAL Plate: 13 Row: f Column: 14  
This clone was selected for full length sequencing because it  
passed the following selection criteria: matched mRNA gi: 9989692.

## FEATURES

## source

1..688  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/clone="MGC:10658 IMAGE:3639550"  
/tissue\_type="Pancreas, adenocarcinoma"  
/clone\_lib="NIH MGC 39"  
/lab\_host="DH10B-R"  
/note="Vector: pOTB7"  
137..595  
/codon\_start=1  
/product="Unknown (protein for MGC:10658)"  
/protein\_id="AAH04380.1"  
/db\_xref="GI:13325134"  
/translation="MDNVQPKIKRPFCSYGVKHYKMLRLATVTSMTFFITAOAEP  
YIVTGEVTVILFFILLYLRDLRLKMLFPLDITINSLVTFVMLIVSLALIP  
TTTTLVGGGFALVTAVCCLDGALYLRKLLFNPSPGYOKRPVHEKKEVL"

## CDS

137..595  
138 c 154 g 195 t  
BASE COUNT 201 a 138 c 154 g 195 t  
ORIGIN

## alignment\_scores:

Quality: 471.50 Length: 152  
Ratio: 4.763 Gaps: 1  
Percent Similarity: 65.132 Percent Identity: 65.132

## alignment\_block:

US-09-801-115-2 x BC004380 ..

Align seg 1/1 to: BC004380 from: 1 to: 688

1 MetAaPaNValGInProLySIleLySHisArpProPhCySPheSerVa 17  
|||||  
137 ATGGTAAAGTCGACCGCGAAATAAATACATCGCCCTTCCTTCAGTGT 186  
17 ILySGlYHISVallysmetLeuArg..... 25  
|||||  
187 GAAAGCCACGCGTGAAGATGCTGCGGCTGGCACTAAGTGCATCTATGA 236  
25 ..... 25  
237 CCTTTTATCATCGACAGCCCTGAACCATATATTTATGACACTGA 286  
25 ..... 25  
287 TTGGAAGTCACCGTTATCTATTTTCAVACTTTATATGACTCAGACT 336  
26 .....LeuAspIleIleAsn 31  
|||||  
337 TGATGATTAATGAAGTGTTATTTGGCCTTTCCTGATATATTAACACT 386

31 exLeuValThrThrValPheMetLeuIleValSerValLeuAlaLeuIle 47  
|||||  
387 CACTGTTAAACACAGTATTCATGCTCATGCTGATGCTGTGGCACTGATA 436  
48 ProGIUThrThrThrLeuThrValGlyGlyValAlaPheAlaLeuValTh 64  
|||||  
437 CCAGAAACCAACACATTCAGAGTGTGGAGGGGTGTTGCACTGTGTGAC 486

64 rAlaValCySCysLeuAlaAspGlyValaLeuIleTyraGlySLeuleuP 81  
|||||  
487 AGCAGTATGCTGTCTTCCGACGGGCCCTTATTACCGGAAGCTTCCT 536  
81 heaAnProSerGlyProTyGInLysLysProValHisGluLysGlu 97  
|||||  
537 TCAATCCACGCGCTCTACAGAAAAAAGCTGTGATGAAAAAAGAA 586

98 ValLeu 99  
|||||

587 GTTTTG 592

seq\_name: gb\_pr:AF135380

seq\_documentation\_block:

LOCUS AF135380 689 bp mRNA linear PRI 07-SEP-2000  
DEFINITION Homo sapiens chemokine-like factor 2 (CKLF2) mRNA, complete cds,  
alternatively spliced.  
ACCESSION AF135380  
VERSION AF135380.2 GI:9989692  
KEYWORDS  
SOURCE human.  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

## REFERENCE

## AUTHORS

## TITLE

## JOURNAL

## REFERENCE

## AUTHORS

## TITLE

## JOURNAL

## REFERENCE

## AUTHORS

## TITLE

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## JOURNAL

## REFERENCE

## AUTHORS

## TITLE

## alignment\_scores:

Quality: 471.50 Length: 152  
Ratio: 4.763 Gaps: 1  
Percent Similarity: 65.132 Percent Identity: 65.132

gene  
1..689  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/cell\_line="U937"  
/note="from PHA stimulated cells"  
1..689  
/gene="CKLF2"  
/note="UCK"  
148..606  
/gene="CKLF2"  
/note="UCK-2, alternatively spliced"  
/codon\_start=1  
/product="Chemokine-like factor 2"  
/protein\_id="AAFI9599.1"  
/db\_xref="GI:6630854"  
/translation="MDNVQPKIKRPFCSYGVKHYKMLRLATVTSMTFFITAOAEP  
YIVTGEVTVILFFILLYLRDLRLKMLFPLDITINSLVTFVMLIVSLALIP  
TTTTLVGGGFALVTAVCCLDGALYLRKLLFNPSPGYOKRPVHEKKEVL"

BASE COUNT 195 a 140 c 161 g 193 t  
ORIGIN

alignment\_block:  
US-09-801-115-2 x AF135380 ..

Align seg 1/1 to: AF135380 from: 1 to: 689

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1 MetaspasValGlnProLysIleLysHisArgProPheCysPheSerVa 17
148 ATGATTAACGTGCACGCCGAAATAAATACATGCCCCCTCTCTCATGCT 197
17 LlysGlyHisValLysMetLeuArg..... 25
198 GAAAGGCCACGTGAAGATGCTGCAGCTGCACACTAAGTGCATCTATGA 247
25 ..... 25
248 CTTTTTTATGATGCGACACAGCCCGTGAACCATATATTGTTATCAGTGA 297
25 ..... 25
298 TTGAGAGTACCCGTTATCTTATTTTCACTTTTATATGACTACAGACT 347
26 .....LeuAspIleIleAsn 31
348 TGATCGATTAAATGAAGTGTATTATTTGGCTTGTGATATATATCAACT 397
31 erLeuValThrThrValPheMetLeuIleValSerValLeuAlaLeuIle 47
398 CACGTGTACACACAGATATTCATGCTCATGCTATCTGTGTGGCACTGATA 447
48 ProGluThrThrThrLeuThrValGlyGlyValPheAlaLeuValThr 64
448 CCAGAAACACACACATTCACAGCTTGCTGAGAGGGGTGTTGCACCTTGTCAC 497
64 rAlaValCysCysLeuAlaAspGlyAlaLeuIleThrArgLysLeuLeu 81
498 AGCACTATGCTGTCTTGGCGAGCGGCCCTTATTACCGAAGCTTCTGT 547
81 heAsnProSerGlyProTyrGlnLysLysProValHisGlnLysLysLeu 97
548 TCATCCACGAGCGGCTCTTACAGAAAGCCCTGTGCATGAAGAAAAAGAA 597
98 ValLeu 99
598 GTTTTG 603

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seq\_name: gb\_sts:G30204

seq\_documentation\_block:

```

LOCUS      G30204                485 bp    DNA    linear    STS 05-OCT-1996
DEFINITION human STS SHGC-36487, sequence tagged site.
ACCESSION  G30204
VERSION    G30204.1 GI:1593755
KEYWORDS   STS; STS sequence; primer; sequence tagged site.
SOURCE     human.
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
REFERENCE  1 (bases 1 to 485)
AUTHORS   Myers,R.M.
JOURNAL   Unpublished (1996)
COMMENT

```

Contact: Richard M. Myers

Stanford Human Genome Center (SHGC)

Stanford University School of Medicine

Department of Genetics, M-344, Stanford, CA 94305, USA

Tel: 4157259687

Fax: 4157259689

Email: myerseshgc.stanford.edu

Primer A: ACTTCTTTTTCATGCACAGC

Primer B: GCCCTTATTTACCGAAGCT

STS size: 77

PCR Profile:

Initial incubation: 94 degrees C for 90 seconds

Denaturation: 94 degrees C for 15 seconds

Annealing: 62 degrees C for 23 seconds

Polymerization: 72 degrees C for 30 seconds

PCR Cycles: 30

Thermal Cycler: Perkin Elmer 9600

Protocol:

Template: 25 ng

Primer: each 1 uM

dNTPs: each 200 uM

Tag Polymerase: 0.05 units/ul

Total Vol: 10 ul

Buffer: MgCl2: 2.5 mM

KCl: 50 mM

Tris-HCl: 20 mM

pH: 8.3

Prepared with primer pairs provided by Sandoz, derived from T90569

-- Washington University/Merck EST sequence.

Location/Qualifiers

1..485

/organism="Homo sapiens"

/db\_xref="taxon:9606"

/map="16"

STS

primer\_bind

primer\_bind

complement(126..145)

BASE COUNT 146 a 99 c 99 g 131 t 10 others

ORIGIN

alignment\_scores:

Quality: 366.00 Length: 74

Ratio: 4.946 Gaps: 0

Percent Similarity: 100.000 Percent Identity: 98.649

US-09-801-115-2 x G30204/rev ..

Align seg 1/1 to reverse of: G30204 from: 1 to: 485

26 LeuAspIleIleAsnSerLeuValThrThrValPheMetLeuIleValSe 42

286 CTGATATATATCAACTCAGTGTACACAGATATTCATGCTCATCGTANC 237

42 rValLeuAlaLeuIleProGluThrThrThrLeuThrValGlyGly 59

236 TGTGTGGCACTGATACAGAAACCAACACATTGACGTTGGTGAAGGG 187

59 alphaLeuValThrThrAlaValCysCysLeuAlaAspGlyAlaLeuIle 75

186 TGTTCGACTTGTGACAGCAGTATGCTGTGCCGAGGCGCCCTATT 137

76 TyrArgLysLeuLeuPheAsnProSerGlyProTyrGlnLysLysPro 92

136 TACCGAAGCTTCTGTCAATCCACAGCGGCTTACACAGAAAGCCCTG 87

92 LHisGlnLysLysGlnValLeu 99

86 GCATGAAGAAAAAGAGATTGG 65

seq\_name: gb\_pr:AF145216

seq\_documentation\_block:

LOCUS AF145216 593 bp mRNA linear PRI 07-SEP-2000

DEFINITION Homo sapiens chemokine-like factor 4 (CKLF4) mRNA, complete cds,

alternatively spliced.

ACCESSION AF145216

VERSION AF145216.2 GI:9989694

KEYWORDS

SOURCE human.  
ORGANISM Homo sapiens  
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
AUTHORS Han, W.L., Gu, W.F., Li, Y., Zhang, Y.M., Di, C.H., Song, Q.S. and Ma, D.L.  
TITLE Direct Submission  
JOURNAL Submitted (23-APR-1999) Immunology, Beijing Medical University, Xue Yuan Road, Beijing 100083, China  
REFERENCE 2 (bases 1 to 593)  
AUTHORS Han, W.L.  
TITLE Direct Submission  
JOURNAL Submitted (07-SEP-2000) Immunology, Peking University Health Science Center, Xueyuan Road 38, Beijing 100083, China  
REMARK Sequence update by submitter  
COMMENT On Sep 7, 2000 this sequence version replaced gi:6625671.  
FEATURES  
source  
1..593  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/cell\_line="U937"  
/note="from PHA stimulated cells"  
1..593  
/gene="CKLF4"  
/note="UCK"  
148..510  
/gene="CKLF4"  
/note="UCK-4: alternatively spliced"  
/codon\_start=1  
/product="chemokine-like factor 4"  
/protein\_id="AAFI9350.1"  
/db\_xref="GI:6625672"  
/translation="MDNVQPKIKHRPFCFSVKGHVKMLRLVTFVAVVCLADGALIRKLLF YIVTEFEVTILFFILYVLRLDRMKLPLVFLVAVVCLADGALIRKLLF NPSGPYOKRPVHEKEVL"  
BASE COUNT 166 a 120 c 140 g 167 t  
ORIGIN

alignment\_scores:  
Quality: 339.50 Length: 126  
Ratio: 4.297 Gaps: 2  
Percent Similarity: 62.698 Percent Identity: 57.937

alignment\_block:  
US-09-801-115-2 x AFI45216 ..  
Align seg 1/1 to: AFI45216 from: 1 to: 593

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1 MetaspasnValGlnProLysIleLysHisArgProPhcysPheSerVa 17
|||||
148 ATGGATTAACGTCAGCGGAAATAAACATCGCCCTTCGCTTCACTGT 197
17 llysglyHisValysMetLeuArgLeuAspIleIleasnSerLeuValT 34
|||||
198 GAAAGCCACGTCGAGATGCTGCGCTGCACAT..... 231
34 hrThrValPheMetLeuIleValSerValLeuAlaLeuIleProGluThr 50
|||||
232 ..ACTGTGACATCTATGACCTTTTATATCATGCACAAAGCCCTGACCA 279
51 ThrThrLeuThrValGlyGlyGly..... 58
:::
280 TATATTTGTTATCACTGATTTGAAGTCACCGTTATCTATTTCATACT 329
58 .....
330 TTTATATGTACTCAGACTGATGATTAATGAAGTGTATTGCGCTT 379
59 .....ValPheAlaLeuValThrAlaValCysCysLeuAlaAspGlyAla 73
|||||
380 TCGTTGTGTGCACTGTGTGACAGCAAGTATGCTGTTCGCCAGGGGCC 429

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74 LeuIleTyrArgLysLeuPheasnProserGlyProTyrGlnLysTy 90  
|||||  
430 CTTATTTACCGAAGCTTCTGTTCAATCCAGCGGCTCTTACAGAAAA 479  
90 sProValHisGluLysLysGluValLeu 99  
|||||  
480 GCCTGTGTCATGAAAAAAGAAAGTTTGG 507  
seq\_name: gb\_pr:AF135381  
seq\_documentation\_block:  
LOCUS AF135381 434 bp mRNA linear PRI 07-SEP-2000  
DEFINITION Homo sapiens chemokine-like factor 3 (CKLF3) mRNA, complete cds,  
alternatively spliced.  
ACCESSION AF135381  
VERSION AF135381.2 GI:9989693  
KEYWORDS  
SOURCE  
ORGANISM human.  
Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
REFERENCE 1 (bases 1 to 434)  
AUTHORS Han, W.L., Gu, W.F., Li, Y., Zhang, Y., Song, Q., Di, C. and Ma, D.  
TITLE Direct Submission  
JOURNAL Submitted (17-MAR-1999) Immunology, Beijing Medical University, Xue Yuan Road, Beijing 100083, China  
REFERENCE 2 (bases 1 to 434)  
AUTHORS Han, W.L.  
TITLE Direct Submission  
JOURNAL Submitted (07-SEP-2000) Immunology, Peking University Health Science Center, Xueyuan Road 38, Beijing 100083, China  
REMARK Sequence update by submitter  
COMMENT On Sep 7, 2000 this sequence version replaced gi:6630855.  
FEATURES  
source  
1..434  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/cell\_line="U937"  
/note="from PHA stimulated cells"  
1..434  
/gene="CKLF3"  
/note="UCK"  
148..351  
/gene="CKLF3"  
/note="UCK-3: alternatively spliced"  
/codon\_start=1  
/product="chemokine-like factor 3"  
/protein\_id="AAFI9600.1"  
/db\_xref="GI:6630856"  
/translation="MDNVQPKIKHRPFCFSVKGHVKMLRLVFLVAVVCLADGALIR KLLFNPSGPYOKRPVHEKEVL"  
BASE COUNT 127 a 88 c 116 g 103 t  
ORIGIN

alignment\_scores:  
Quality: 331.00 Length: 99  
Ratio: 4.940 Gaps: 1  
Percent Similarity: 67.677 Percent Identity: 67.677

alignment\_block:  
US-09-801-115-2 x AFI35381 ..  
Align seg 1/1 to: AFI35381 from: 1 to: 434

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1 MetaspasnValGlnProLysIleLysHisArgProPhcysPheSerVa 17
|||||
148 ATGGATTAACGTCAGCGGAAATAAACATCGCCCTTCGCTTCACTGT 197
17 llysglyHisValysMetLeuArgLeuAspIleIleasnSerLeuValT 34
|||||
198 GAAAGCCACGTCGAGATGCTGCGCTGCACAT..... 225

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34 hrThrValPheMetLeuIleValSerValLeuAlaLeuIleProGluThr 50  
 225 .....  
 51 ThrThrLeuThrValGlyGlyValPheAlaLeuValThrAlaValCyl 67  
 226 .....GTGTTGCACCTTGACAGCAGTATG 251  
 67 scYsLeuAlaAspGlyAlaLeuIleTyrArgLysLeuLeuPheAsnProS 84  
 232 CTGTCTTCCGCGCGGCGCTTATTTACCGGAAGCTCTGTCAATCCCA 301  
 84 erGlyProTyrGlnLysLysProValHisGlyLysGluValLeu 99  
 302 GCGGTCCTTACCGAAGAACCTGTGATGAAGAAAGAGTTTGG 348  
 seq\_name: gb\_pat:AX079435

seq\_documentation\_block:  
 LOCUS AX079435 495 bp DNA linear PAT 22-FEB-2001  
 DEFINITION Sequence 179 from Patent WO0107611.  
 ACCESSION AX079435  
 VERSION AX079435.1 GI:13158995  
 KEYWORDS  
 SOURCE human.  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.  
 REFERENCE 1 (bases 1 to 495)  
 AUTHORS Baker,K.P., Goddard,A. and Wood,W.I.  
 TITLE Human polypeptides and methods for the use thereof  
 JOURNAL Patent: WO 0107611-A 179 01-FEB-2001;  
 Genentech, Inc. (US)  
 FEATURES  
 source 1..495  
 location/Qualifiers  
 /organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
 BASE COUNT 119 a 103 c 127 g 142 t 4 others  
 ORIGIN

alignment\_scores:  
 Quality: 318.50 Length: 124  
 Ratio: 4.550 Gaps: 1  
 Percent Similarity: 56.452 Percent Identity: 56.452

alignment\_block:  
 US-09-801-115-2 x AX079435 ..

Align seg 1/1 to: AX079435 from: 1 to: 495

1 MetAspAsnValGlnProLysIleLysHisArgProPheCysPheSerVa 17  
 124 ATGGATACGTGCGAGCGAATAAATCAATGCGCCCTTCTCTTCAGAGCT 173  
 17 llysglyHisValLysMetLeuArg..... 25  
 174 GAAAGGCCACGTGAAGATGCTGCGCTGGCACTAACTGNGACATCTATGA 223  
 25 ..... 25  
 224 CCTTTTATATATGCGACAGCCCTGACACCATATATTTATGACTGGA 273  
 25 ..... 25  
 274 TTGGAAGTACACGTTATCTTATTTTCATACTTTATATGACTCAGACT 323  
 26 .....LeuAspIleIleAsnS 31  
 324 TGATGATTAATGAAGTGTATTTGGCTTTCCTTGATATATATCAACT 373  
 31 erLeuValThrThrValPheMetLeuIleValSerValLeuAlaLeuIle 47

374 CACTGGTAACACAGTATTCATGCTCATCTATCTGTGGGACGTGATA 423  
 48 ProGluThrThrThrLeuThrValGlyGlyValPheAlaLeuValThr 64  
 424 CCAGAACCAACACATGACAGTGTGGAGGGGTGTTTCACCTTGAGC 473  
 64 rAlaValCysCysLeuAlaAsp 71  
 474 AGCAGTATGCTGTNTTCCGAC 495  
 seq\_name: gb\_ro:AF253064

seq\_documentation\_block:  
 LOCUS AF253064 523 bp mRNA linear ROD 27-NOV-2001  
 DEFINITION Rattus norvegicus chemokine-like factor 1 (CKLF1) mRNA, complete cds.  
 ACCESSION AF253064  
 VERSION AF253064.2 GI:17105378  
 KEYWORDS  
 SOURCE Norway rat.  
 ORGANISM Rattus norvegicus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;  
 Rattus.

REFERENCE 1 (bases 1 to 523)  
 AUTHORS Lou,Y., Li,Y., Han,W., Song,Q., Zhang,Y., Di,C. and Ma,D.  
 TITLE Direct Submission  
 JOURNAL Submitted (06-APR-2000) Immunology, Beijing Medical University,  
 Xueyuan Road, Beijing 100083, China  
 REFERENCE 2 (bases 1 to 523)  
 AUTHORS Lou,Y., Li,Y., Han,W., Song,Q., Zhang,Y., Di,C. and Ma,D.  
 TITLE Direct Submission  
 JOURNAL Submitted (27-NOV-2001) Immunology, Beijing Medical University,  
 Xueyuan Road, Beijing 100083, China  
 REMARK Sequence update by submitter  
 COMMENT On Nov 27, 2001 this sequence version replaced gi:7769680.  
 FEATURES  
 source 1..523  
 location/Qualifiers  
 /organism="Rattus norvegicus"  
 /strain="Wistar"  
 /db\_xref="taxon:10116"  
 /tissue\_type="liver"  
 1..523  
 /gene="CKLF1"  
 167..463  
 /gene="CKLF1"  
 /note="cytokine; similar to Homo sapiens CKLF1"  
 /codon\_start=1  
 /product="chemokine-like factor 1"  
 /protein\_id="AAF69502.1"  
 /db\_xref="GI:7769681"  
 /translation="MDSPOKVVDDHQPCLSLKCFKTLRLDIVNSVTTLEMLIVSVS  
 ALIETSMINWGVFGLIVICNVACALMCKQLRRPRHPGPNRSATVDVS"

gene  
 CDS

alignment\_scores:  
 Quality: 275.00 Length: 90  
 Ratio: 3.667 Gaps: 0  
 Percent Similarity: 83.333 Percent Identity: 58.889

alignment\_block:  
 US-09-801-115-2 x AF253064 ..

Align seg 1/1 to: AF253064 from: 1 to: 523

1 MetAspAsnValGlnProLysIleLysHisArgProPheCysPheSerVa 17  
 167 ATGGACTCTTCACACAGAAGCGTAGACATCAAGCCCTTCTGCTCAGTCT 216  
 17 llysglyHisValLysMetLeuArgLysLeuAspIleIleAsnSerLeuVal 34

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217 GAATGCTTTGTGAAGCGCTGGTGGATGTTATCACTCGGTGTAA 266
34 htrhValPheMetLeuIleValSerValLeuAlaLeuIleProGluThr 50
267 CAACACATTCATCGCTATGTGTGTGCGGCTCTAAATACCGAAGACC 316
51 ThrThrLeuThrValGlyGlyValAlaPheAlaLeuValThrAlaValGly 67
317 TCACACATGATATGTTGGAGGGGTGTTGCTTCTGACAGATATATG 366
67 sCysLeuAlaAspGlyAlaLeuIleTyArgLysLeuLeuPheAsnProSerG 84
367 TACTGTGCTGATGTGCGCTTATGTCAGAAACCTCGGTTTCGTCAC 416
84 ergLysProTyrgLysLys 90
417 ATGAGACCTTATCAGAACAGG 436
seq_name: gb_pat:AX330610

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seq_documentation_block:
LOCUS AX330610 207 bp DNA linear PAT 09-JAN-2002
DEFINITION Sequence 1119 from Patent WO0194629.
ACCESSION AX330610
VERSION AX330610.1 GI:18103588
KEYWORDS
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
1 (sites)
AUTHORS Young,P.E., Augustus,M., Carter,K.C., Ebner,R., Endress,G.,
Horriagan,S., Soppet,D.R. and Weaver,Z.
Cancer gene determination and therapeutic screening using signature
TITLE
JOURNAL Patent: WO 0194629-A 1119 13-DEC-2001;
FEATURES
source 1..207
location/Qualifiers
1..207
/organism="Homo sapiens"
/db_xref="taxon:9606"
BASE COUNT 70 a 43 c 39 g 54 t 1 others
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Ratio: 5.213 Gaps: 0
Percent Similarity: 97.917 Percent Identity: 97.917

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alignment_block:
US-09-801-115-2 x AX330610/rev ..

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Align seg 1/1 to reverse of: AX330610 from: 1 to: 207

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52 ThrLeuThrValGlyGlyValAlaPheAlaLeuValThrAlaValCysCys 68
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205 ACATTGACAGTTGGTGGAGGGGTGTTGCACTTGTGACAGAGATATCTG 156
68 sLeuAlaAspGlyAlaLeuIleTyArgLysLeuLeuPheAsnProSerG 85
|||||
155 TCTTGCCGACGGGGCCCTTATTATCCGGAAGCTTCTGTCATATCCACAGC 106
85 LysProTyrgLysLysProValHisGlyLysGluValLeu 99
|||||
105 GTCTTACCAAGNAAAAGCCTGTGATGAAAAAAGAAAGTTTG 62
seq_name: gb_pat:AX330787

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seq_documentation_block:
LOCUS AX330787 207 bp DNA linear PAT 09-JAN-2002
DEFINITION Sequence 1296 from Patent WO0194629.

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ACCESSION AX330787
VERSION AX330787.1 GI:18103765
KEYWORDS
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
1 (sites)
AUTHORS Young,P.E., Augustus,M., Carter,K.C., Ebner,R., Endress,G.,
Horriagan,S., Soppet,D.R. and Weaver,Z.
Cancer gene determination and therapeutic screening using signature
TITLE
JOURNAL Patent: WO 0194629-A 1296 13-DEC-2001;
FEATURES
source 1..207
location/Qualifiers
1..207
/organism="Homo sapiens"
/db_xref="taxon:9606"
BASE COUNT 70 a 43 c 39 g 54 t 1 others
ORIGIN

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alignment_scores:
Quality: 245.00 Length: 48
Ratio: 5.213 Gaps: 0
Percent Similarity: 97.917 Percent Identity: 97.917

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alignment_block:
US-09-801-115-2 x AX330787/rev ..

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Align seg 1/1 to reverse of: AX330787 from: 1 to: 207

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52 ThrLeuThrValGlyGlyValAlaPheAlaLeuValThrAlaValCysCys 68
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205 ACATTGACAGTTGGTGGAGGGGTGTTGCACTTGTGACAGAGATATCTG 156
68 sLeuAlaAspGlyAlaLeuIleTyArgLysLeuLeuPheAsnProSerG 85
|||||
155 TCTTGCCGACGGGGCCCTTATTATCCGGAAGCTTCTGTCATATCCACAGC 106
85 LysProTyrgLysLysProValHisGlyLysGluValLeu 99
|||||
105 GTCTTACCAAGNAAAAGCCTGTGATGAAAAAAGAAAGTTTG 62
seq_name: gb_pat:AX331008

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seq_documentation_block:
LOCUS AX331008 207 bp DNA linear PAT 09-JAN-2002
DEFINITION Sequence 1517 from Patent WO0194629.
ACCESSION AX331008
VERSION AX331008.1 GI:18121642
KEYWORDS
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
1 (sites)
AUTHORS Young,P.E., Augustus,M., Carter,K.C., Ebner,R., Endress,G.,
Horriagan,S., Soppet,D.R. and Weaver,Z.
Cancer gene determination and therapeutic screening using signature
TITLE
JOURNAL Patent: WO 0194629-A 1517 13-DEC-2001;
FEATURES
source 1..207
location/Qualifiers
1..207
/organism="Homo sapiens"
/db_xref="taxon:9606"
BASE COUNT 70 a 43 c 39 g 54 t 1 others
ORIGIN

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alignment_scores:
Quality: 245.00 Length: 48

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Ratio: 5.213 Gaps: 0  
Percent Similarity: 97.917 Percent Identity: 97.917

alignment\_block:

US-09-801-115-2 x AX331008/rev ..

Align seg 1/1 to reverse of: AX331008 from: 1 to: 207

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52 ThrleuthrValGIgYIGlyValAlpheAlaLeuValThrAlaValCysCy 68
|||||
205 ACATTGACAGTGTGTGGAGGGGCTGTTCACCTGTGTGACAGCAGATGCTG 156
|||||
68 sleuAlaAspGlyAlaLeuIleTyrArgLysLeuLeuPheAsnProSerG 85
|||||
155 TCCTGCGGACGGGGCCCTTATTATTCGGAAGCTTGTGTCAATCCGAGCG 106
|||||
85 lYProTyrGlnLysLysProValHisGlnLysLysGluValLeu 99
|||||
105 GTCCTTACAGNMAAAGCTGTGCATGAAAAAAGAGATTG 62
|||||
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seq\_name: gb\_to:AF253065

seq\_documentation\_block:

LOCUS AF253065 682 bp mRNA linear ROD 27-NOV-2001  
DEFINITION Rattus norvegicus chemokine-like factor 2 (CKLF2) mRNA, complete

ACCESSION AF253065  
VERSION AF253065.2 GI:17105379

KEYWORDS

SOURCE Norway rat.  
ORGANISM Rattus norvegicus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;

REFERENCE

1 (bases 1 to 682)  
Lou, Y., Li, Y., Han, W., Song, Q., Zhang, Y., Di, C. and Ma, D.

JOURNAL Submitted (06-APR-2000) Immunology, Beijing Medical University,  
Xueyuan Road, Beijing 100083, China

2 (bases 1 to 682)  
Xueyuan Road, Beijing 100083, China

REFERENCE Direct Submission  
Submitted (27-NOV-2001) Immunology, Beijing Medical University,  
Xueyuan Road, Beijing 100083, China

JOURNAL Sequence update by submitter  
On Nov 27, 2001 this sequence version replaced gi:7769682.

REMARK COMMENT  
FEATURES Location/Qualifiers

1..682  
/organism="Rattus norvegicus"

/strain="Wistar"

/db\_xref="taxon:10116"

/tissue\_type="liver"

1..682  
/gene="CKLF2"

167..622  
/gene="CKLF2"

/note="cytokine; similar to Homo sapiens CKLF2"

/codon\_start=1

/product="chemokine-like factor 2"

/protein\_id="AAF69503.1"

/db\_xref="GI:7769683"

/translation="MDSPOKVVYDHPFLSLKCFYKTLRLVYTVASMIFFVIAQAPPEP  
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TSTMTAVGVGFGLTIVADCALMCQKLRFRPHGPYQNRSATDVDS"

BASE COUNT 167 a 143 c 163 g 209 t

ORIGIN

alignment\_scores:  
Quality: 238.50 Length: 143  
Ratio: 3.180 Gaps: 1  
Percent Similarity: 52.448 Percent Identity: 37.063

alignment\_block:  
US-09-801-115-2 x AF253065 ..

Align seg 1/1 to: AF253065 from: 1 to: 682

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1 MetAspAsnValGlnProLysIleLysHisArgProPheCysPheSerVal 17
|||||
167 ATGACTCTCCACAGAGAGTGTGACACATCAGCCCTTGTGCTCAGTCT 216
|||||
17 LysGlnHisValLysMetLeuArg..... 25
|||||
217 GAAATGCTTTGTGAAGACGCTGGGTTGTGTGAACGTGGCCTTANGA 266
|||||
25 ..... 25
267 TCCTTTTCATTGTGGCACAAGCCCTGAACCGTANATGCTATCAGCTGGG 316
|||||
25 ..... 25
317 TTGGAAGTCAACCATCTCTCTTCTCATAGCCTTATATATGTCAGTCT 366
|||||
26 ..... 31
367 TGACAGACAGATGAGATCTTCTTTGGCCTTGTGATGTTATCAACT 416
|||||
31 erleuValThrValPheMetLeuIleValSerValLeuAlaLeuIle 47
|||||
417 CGGTGTACACACATCATGCTTATGTGTGTGTGTGTGTGTGTGTGTGTGT 466
|||||
48 ProGlnThrThrThrThrValGlyGlyValAlpheAlaLeuValTh 64
|||||
467 CCGAAGACCTCAACATGATATAGTTGGAGGGGTTGGTTGTTCTCTGAC 516
|||||
64 lAlaValCysCysLeuAlaAspGlyAlaLeuIleTyrArgLysLeuLeuP 81
|||||
517 AGAATATATGACTGTGCTGATGTGCTTATGTCAGCAAGAACGTCGGT 566
|||||
81 heAsnProSerGlyProTyrGlnLysLys 90
|||||
567 TTGCTCCACATGAGACCTTATCAGAACAGG 595
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